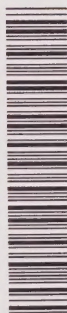


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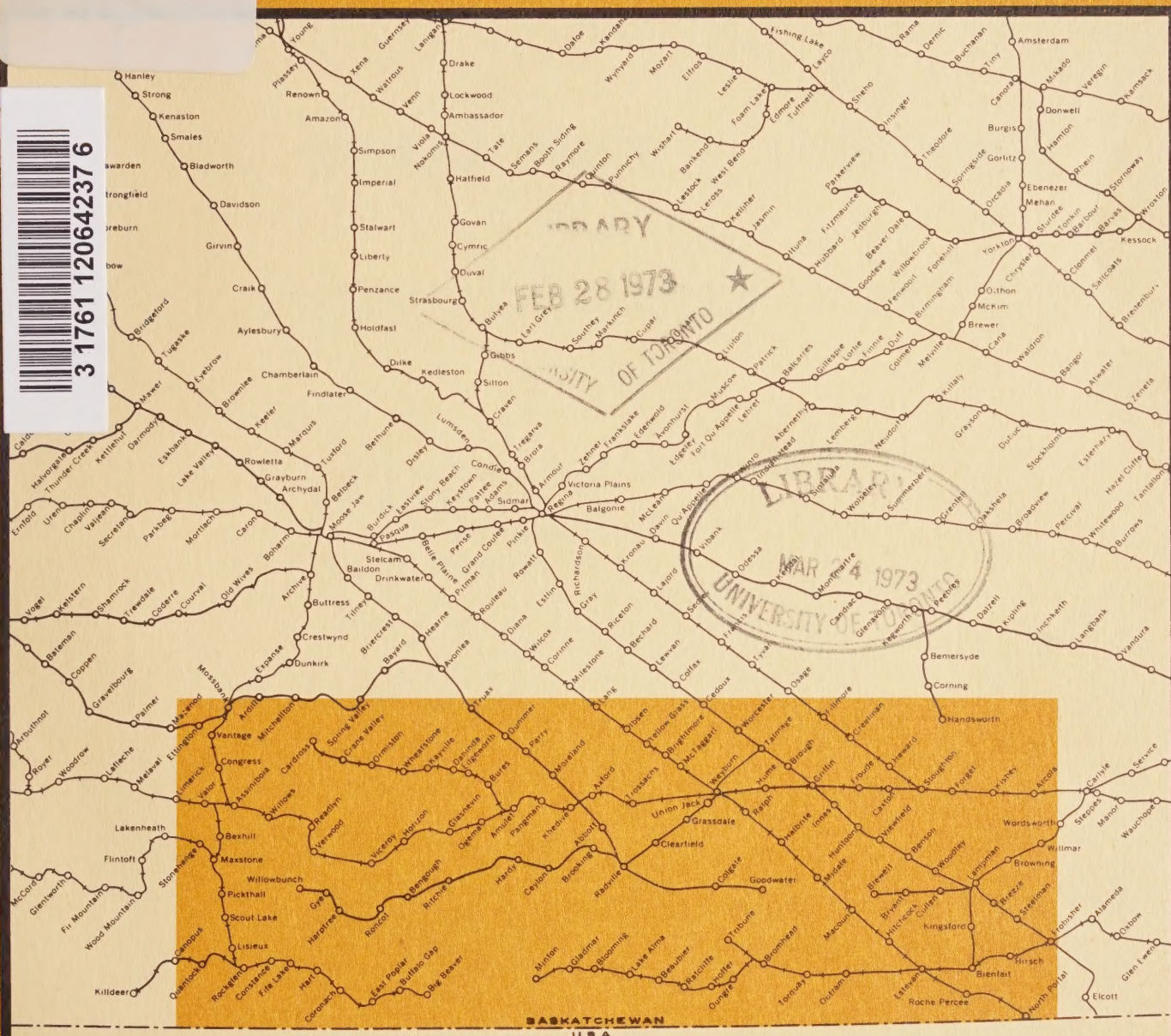
THE WEYBURN REGION OF SASKATCHEWAN

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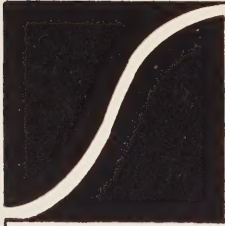


Economics Branch, Canada Department of Agriculture

J. W. Channon

H. R. Fast

D. A. Neil



PRAIRIE REGIONAL STUDIES
IN ECONOMIC GEOGRAPHY NO. 5

THE WEYBURN REGION OF SASKATCHEWAN

J.W. CHANNON, H. R. FAST, D.A. NEIL
ECONOMICS BRANCH
CANADA DEPARTMENT OF AGRICULTURE
REGINA, SASKATCHEWAN

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E R R A T A

Prairie Regional Studies in Economic Geography No. 5

THE WEYBURN REGION OF SASKATCHEWAN, by

J.W. Channon, H.R. Fast and D.A. Neil, Economics Branch,

Canada Department of Agriculture, 1971

Please note the following corrections:

TABLE 2i, pp. 100-117

Delivery Point	Median Size	
	1962-63	1969-70
Axford	640	
Blewett	480	
Buffalo Gap	640	
Innes	640	No Change
Roncott	No Change	640
Union Jack	No Change	640
Hitchcock	480	No Change
Talmage	No Change	640
Ralph	640	640
East Poplar	560	No Change
Hart	640	No Change
Ratcliffe	480	640
Harptree	480	640
Horizon	No Change	800
Outram	No Change	800
Woodley	640	No Change
Amulet	560	No Change
Heward	640	No Change
Beaubier	800	800
Verwood	480	No Change
Trossachs	640	800
Gladmar	640	800
Benson	640	No Change
Forget	640	No Change
Bromhead	640	640
Goodwater	640	No Change
Fife Lake	480	No Change
Colgate	480	No Change
Viceroy	No Change	480
Macoun	480	No Change
Big Beaver	800	No Change
Creeiman	640	No Change
Ceylon	480	No Change
Torquay	640	640
Willow Bunch	480	640
Coronach	480	No Change
Ogema	No Change	640
Lampman	640	640
Bengough	480	640
Stoughton	640	No Change
Radville	No Change	640
Weyburn	480	No Change



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ACKNOWLEDGEMENTS

Many persons assisted in the preparation of this report and to all of them we wish to express our sincere thanks. In particular, we are grateful to the following persons who co-operated in the collection of data: the late Mr. T.C. Barnes, Mr. J.B. Hayes, and Mr. A. Hutchison of the Canadian Wheat Board; Dr. J.C. Dempster, Mr. A.N. Everson and Mr. J.H. Davidson of the Board of Grain Commissioners; Miss B. Pendleton of the Dominion Bureau of Statistics; Miss M. Fleming of the Canadian Transport Commission; Mr. B. Allan of the Post Office Department; Mr. W.H. Huartson of the Farm Credit Corporation; Mr. R.L. Surtees of the Prairie Farm Assistance Administration; Mr. W. White of the Canadian National Railways; Mr. R. Leslie of the Canadian Pacific Railways; Mr. W.E. Thompson and Mr. W.K. Setter of the Saskatchewan Department of Municipal Affairs; Mr. C. Amunrud of the Saskatchewan Department of Education; Mr. R.B. Otterdahl of the Saskatchewan Municipal Hail Insurance Association; and Mr. F.M. Warick of the Saskatchewan Wheat Pool.

We want to express our appreciation to Mr. D.R. Ferrier and Mr. M.R. Krauss of Associated Engineering Services Ltd. for undertaking the complex mapwork involved in the study, and to the Canada Department of Regional Economic Expansion for making available the Canada Land Inventory maps.

Finally, a great deal of credit must be given to fellow staff members of the Economics Branch, Canada Department of Agriculture; especially, Mr. T.O. Riecken, Miss K. Morison, Mr. R. Barton, Miss I. Shaw and Mrs. L. Manwaring.

To all these people we are indebted. Any errors or omissions, however, remain the responsibility of the authors.

Publications in Series of
PRAIRIE REGIONAL STUDIES IN ECONOMIC GEOGRAPHY

1. The Riverhurst Region of Saskatchewan by A.W. Burges, Geographical Branch, Department of Energy, Mines and Resources; and J.W. Channon, Economics Branch, Canada Department of Agriculture.
(Supplement to Riverhurst Regional Report, September, 1967)
2. The Boissevain Region of Manitoba by J.W. Channon, D. Zasada and R.T. Miller, Economics Branch, Canada Department of Agriculture.
3. The Rockglen Region of Saskatchewan by J.W. Channon, D. Zasada and R.T. Miller, Economics Branch, Canada Department of Agriculture.
Pub. No. 69/11, August, 1969.
4. The Camrose-Vegreville Region of Alberta by J.W. Channon and D. Zasada, Economics Branch, Canada Department of Agriculture.
Pub. No. 69/16, November, 1969.
5. The Weyburn Region of Saskatchewan by J.W. Channon, H.R. Fast and D.A. Neil, Economics Branch, Canada Department of Agriculture.
Pub. No. 71/4, May, 1971.

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PREFACE

This report on the Weyburn region of Saskatchewan is the fifth in a series of Prairie Regional Studies in Economic Geography. The geographic area denoted by "Weyburn region" is comprised of the grain-growing areas, or hinterlands, served by 72 delivery points. These are first listed in Table 1 and again in subsequent tables as required.

This collection of detailed tabular material and area maps seeks to describe the socio-economic activity of the region, with emphasis on grain farms and the communities and facilities serving them. From this information it is hoped the reader will gain an appreciation of the relative importance of the communities and their tributary areas.

A major change, in contrast to earlier reports in the series, is the inclusion of the 1969-70 hinterlands, which are also used as a basis for probable diversions. This feature serves to update the information and also permits one to make comparisons between 1962-63 and 1969-70 hinterlands.

It will be noted that we have refrained from drawing inferences, arriving at conclusions and making recommendations. It is hoped that other researchers with other purposes will do so. We have been content to provide some of the parameters, especially bearing in mind the very significant changes that have been underway for several years in the grain production, collection and distribution system. The reader will find that simultaneous examination of two or more tables in this report will frequently yield some interesting relationships which will suggest new avenues of investigation.

This report is organized into four major parts, the first being a description of the communities themselves. The following community attributes are described: available services, population, school enrolment, postal activity, property tax assessment and transportation services. The second part describes some agricultural characteristics of the region including soils, land values, meteorological data, land use, crop yields, and farm sizes and tenure. Descriptive material contained in the third part focuses on the grain marketing and handling system as it relates to the delivery points. Among other things, this includes data on the number and capacity of grain elevators, number of permit holders, grain elevator receipts, quota base, grain prices and farm to elevator grain hauling activity. Finally, the last part assumes that certain delivery points are closed and then examines the effect this would have on remaining delivery points in the region. That is, it is first assumed that certain delivery points close. Their hinterlands are diverted and added to neighboring delivery point hinterlands. Finally, estimates are made of acreages, bushels and number of permit holders gained by delivery points remaining open, and of increased hinterland size and hauling distances.

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PART I

COMMUNITY ATTRIBUTES

Classification of Communities

For purposes of this study, the method of community classification is based on a modification of the system devised by the Saskatchewan Royal Commission on Agriculture and Rural Life.¹ The criteria used for classifying and ranking the communities in this study were the number of service activities present and population. First, communities were classified by number of services into five categories: namely, "too small to classify", "hamlets", "villages", "towns", and "greater towns". Then, given two or more communities with an equal number of services they were ranked by population. Estevan and Weyburn were placed in a sixth category, "cities", by virtue of their large number of services and their large populations.

This method of ranking is not perfect. For instance, it ignores dollar-volume of retail sales in each community and it does not take into account quality of service activities present. However, it appears to be more meaningful than a simple ranking by population.

Tables 2 and 3 show how many services were present in each community, which served as the basis for the service classification and initial ranking within each class. The most recent population estimates shown in Table 4 were used in the ranking by population. The results are summarized in Table 1 where communities are listed in ascending order of rank. There were 20 communities too small to classify, 16 hamlets, 23 villages, 7 towns, 4 greater towns, and 2 cities.

The type and number of services shown for each delivery point, other than grain elevators, may not be 100 per cent accurate. This information was gleaned from a visual, field survey and from telephone directories. It is possible that some services were overlooked (e.g. door-to-door salesman; beauty parlour in basement of private home) and sometimes it was difficult to know whether a particular business or meeting hall was in regular use or abandoned.

As a working definition of "service" with respect to grain elevators the following criterion was used. A grain elevator was counted as a service if it was actually used to receive grain directly from producers, either on a part or full-time basis, during the 1969-70 crop year. This means that the mere presence of a licensed, physical elevator facility was not counted a service if it was used for storage only.

¹Royal Commission on Agriculture and Rural Life, Regina, Saskatchewan: Queen's Printer, 1957, "Service Centers", Report No. 12.

Of the 20 delivery points too small to classify 9 had no services and 11 had one service; namely, a grain elevator in active use (Table 2). The 9 points with no services are former delivery points that were all active in 1962-63, except Brough, which has been used for storage from 1953-54 to the present. The five elevators being used for storage only will be emptied and disposed of under a program recently initiated by the Canadian Wheat Board.

Table 3 clearly shows the types and range of services available in the various communities classified as hamlet and larger. The predominant activity in hamlets is the grain elevator followed by a post office and church. A similar pattern holds for villages with the addition of a general store, service station, bulk fuel dealer, a school, other meeting halls and a skating or curling rink. The larger villages may also have banking services. Absent are services like clothing store, pharmacy, lawyer, physician and hospital.

Virtually the whole range of services is displayed in the group of towns and greater towns. Where previously there may only have been one establishment, now there are often two or more establishments of the same type. Some degree of specialization is evident. For instance, the "general" store has been replaced by separate grocery and hardware stores. In addition greater towns had other specialized services not itemized in Table 3. Examples are funeral homes, ambulance, drive-in eating establishments and auto wreckers.

The number of services in cities showed still more specialization, such as a radio station, and were too numerous to detail.

TABLE 1. CLASSIFICATION OF COMMUNITIES IN THE STUDY AREA

Too Small to Classify 0-1 Services	Hamlets 2-8 Services	Villages 9-32 Services	Towns 33-59 Services	Greater Towns 60 or more Services	Cities
Brough	Grassdale	Froude	Pangman	Lampman	Estevan
Axford	Talmage	Beaubier	Ceylon	Bengough	Weyburn
Gye	Huntoon	Khedive	Torquay	Stoughton	
Abbott	Ralph	Verwood	Willow Bunch	Radville	
Brooking	East Poplar	Scout Lake	Coronach		
Blewett	Hart	Trossachs	Midale		
Blooming	Ratcliffe	Gladmar	Ogema		
Caxton	Glasnevin	Benson			
Buffalo Gap	Harptree	Griffin			
Clearfield	Horizon	Forget			
Innes	Outram	Halbrite			
Ritchie	Woodley	Bromhead			
Roncott	Constance	Goodwater			
Bryant	Hardy	Fife Lake			
Union Jack	Amulet	Oungre			
Hoffer	Heward	Colgate			
Viewfield		Tribune			
Cullen		Viceroy			
Hume		Macoun			
Hitchcock		Big Beaver			
		Lake Alma			
		Minton			
		Creelman			

TABLE 2. SERVICES PRESENT IN COMMUNITIES TOO SMALL TO CLASSIFY, 1969

Delivery Point	Service
<i>Too Small to Classify (0-1)</i>	
Brough	Nil (Storage only 1953-54 onward)
Axford	Nil (Storage only 1967-68 onward)
Gye	Nil (Storage only 1963-64 to 1965-66, closed 1966-67)
Abbott	Nil (Storage only 1969-70)
Brooking	Nil (Storage only 1969-70)
Blewett	Nil (Closed 1969-70 - demolished)
Blooming	Nil (Storage only 1967-68 onward)
Caxton	Nil (Storage only 1964-65, closed 1965-66)
Buffalo Gap	Nil (Closed 1965-66 - demolished)
Clearfield	1 Grain elevator
Innes	1 Grain elevator
Ritchie	1 Grain elevator
Roncott	1 Grain elevator
Bryant	1 Grain elevator
Union Jack	1 Grain elevator
Hoffer	1 Grain elevator
Viewfield	1 Grain elevator
Cullen	1 Grain elevator
Hume	1 Grain elevator
Hitchcock	1 Grain elevator

Population of Communities

Total population of the communities in the study area increased 79.7 per cent between 1941 and 1969 and 21.3 per cent since 1956 (Table 4). This increase, however, is entirely due to large increases in the populations of the greater towns and cities. Greater towns combined, increased 24.1 per cent and the two cities increased 46.0 per cent between 1956 and 1969. The total populations of all the other classifications (where data were available) decreased during this period as follows: towns 6.1 per cent, villages 24.6 per cent, hamlets 57.9 per cent and too small to classify 34.5 per cent. It should also be noted that the total population of the greater towns and cities in 1969 account for 79.6 per cent of total community population. These trends illustrate the movement of people from small rural centers to larger centers.

There is a fairly close correspondence between number of services and population. A notable exception is Hitchcock with a population of 100 and only one service (grain elevator). The explanation for this is its close proximity to Estevan (eight miles via paved highway) so that inhabitants of Hitchcock go to Estevan for services and those who are not full-time farmers find employment in Estevan as well.

A comparison of Tables 3 and 4 will reveal other anomalies. For instance, the number of inhabitants of Lampman has risen steadily from only 199 in 1941 to over 800 in 1969. In recent years oil companies have moved some employees and their families into Lampman from other points, one of these being a movement from Frobisher, about 20 miles to the south-east.

TABLE 4. POPULATION OF COMMUNITIES IN THE STUDY AREA, CENSUS YEARS 1941 TO 1966 AND 1969

	1941	1951	1956	1961	1966	1969
<i>Too Small to Classify</i>						
Brough	9	n.a.	n.a.	n.a.	n.a.	0
Axford	2	1	n.a.	n.a.	n.a.	0
Gye	8	7	4	n.a.	n.a.	0
Abbott	2	2	n.a.	n.a.	n.a.	0
Brooking	31	24	27	10	3	0
Blewett	n.a.	1	7	n.a.	n.a.	1
Blooming	17	3	n.a.	n.a.	n.a.	2
Caxton	n.a.	3	4	n.a.	n.a.	2
Buffalo Gap	85	43	n.a.	n.a.	11	9
Clearfield	6	n.a.	n.a.	n.a.	n.a.	0
Innes	7	15	18	7	5	0
Ritchie	3	20	12	n.a.	n.a.	2
Roncott	n.a.	6	1	n.a.	n.a.	2
Bryant	5	13	8	4	8	3
Union Jack	4	2	n.a.	n.a.	n.a.	4
Hoffer	28	33	18	8	3	6
Viewfield	22	21	20	2	7	6
Cullen	11	12	11	10	11	8
Hume	13	34	32	30	21	18
Hitchcock	39	66	64	66	93	100
<i>Hamlets</i>						
Grassdale	5	8	n.a.	n.a.	n.a.	3
Talmage	41	45	63	63	27	7
Huntoon	26	36	26	26	14	14
Ralph	16	8	11	25	31	17
East Poplar	19	21	n.a.	21	7	6
Hart	14	9	7	4	4	6
Ratcliffe	24	46	47	n.a.	10	8
Glasnevin	25	14	15	n.a.	8	9
Harpree	n.a.	27	27	23	16	6
Horizon	66	85	70	54	47	n.a.
Outram	14	20	32	32	50	23
Woodley	37	23	34	27	24	27
Constance	38	27	25	26	15	17
Hardy	80	85	75	76	59	n.a.
Amulet	66	68	91	47	27 ^a	25
Heward	105	152	134	136	119	n.a.
<i>Villages</i>						
Froude	41	65	56	56	53	19
Beaubier	47	70	72	64	73	84
Khedive	97	123	153	123	121	90
Verwood	186	125	85 ^b	84	64	49
Scout Lake	71	100	106	96	67	48
Trossachs	77	87	88	89	68	64
Gladmar	48	106	109	107	107	107
Benson	125	145	164	137	106	86
Griffin	139	130	121 ^c	140	129	97
Forget	152	165	166	220	139	121
Halbrite	105	154	214	180	142	n.a.
Bromhead	133	124	117	98	69 ^a	57
Goodwater	88	82	76	87	101	71
Fife Lake	111	151	166	144	119	104
Oungre	94	87	74	73	65	54
Colgate	86	83	103	101	96	65
Tribune	82	130	129	153	144	121
Viceroy	203	236	289	225	178	132

See footnotes at end of table

(continued)

TABLE 4. POPULATION OF COMMUNITIES IN THE STUDY AREA, CENSUS YEARS 1941 TO 1966 AND 1969 (concluded)

	1941	1951	1956	1961	1966	1969
Macoun	129	188	191	193	175	190
Big Beaver	61	68	105	144	116	103
Lake Alma	133	134 ^d	170	171	151	147
Minton	60	182 ^d	191	208	219	226
Creelman	145	150	215	196	191	187
<i>Towns</i>						
Pangman	150	172	231	260	248	255
Ceylon	257	324 ^e	355	288	332 ^e	299
Torquay	200	403	526	462	443	419
Willow Bunch	454	613 ^f	742	698	631	527
Coronach	139	300	358 ^g	395 ^g	474	443
Midale	227	400	703	645	762	733
Ogema	330	467	455	458	427	489
<i>Greater Towns</i>						
Lampman	199	386	506	637	763	807
Bengough	279	396	573	613 ^h	695	750
Stoughton	302	450	562	606 ⁱ	749	775
Radville	813	973	1,087	1,067	1,053	1,053
<i>Cities</i>						
Estevan	2,774	3,935	5,264	7,728 ^j	9,062	9,700
Weyburn	6,179	7,148	7,684 ^k	9,101	9,000	9,200
Study Area Total	15,584	19,832	23,089	26,744	27,952	28,003
<i>Census Division Totals</i>						
#1	34,171	35,481	36,948	38,875	39,441	
#2	36,140	34,714	33,929	33,760	32,489	
#3	38,648	29,477	29,686	28,245	26,622	
Province of Saskatchewan	895,992	831,728	880,665	925,181	955,344	959,000

n.a. - Not available

^aAmulet and Bromhead Villages disorganized in 1965, added to Norton and Souris Valley respectively.

^bVillage disorganized, Verwood added to Excel 1954.

^cVillage disorganized, Forward added to Griffin 1956.

^dVillages incorporated: 1949 Lake Alma, from Lake Alma, 1951 Minton from Surprise Valley.

^ePart of The Gap annexed to Ceylon Village 1951 and 1964.

^fPart of Willow Bunch annexed to Willow Bunch Village 1949, incorporated as town 1960.

^gPart of Harte Butte annexed to Coronach Village 1952 and 1961.

^hPart of Bengough annexed to Bengough Village 1958, incorporated as a town same year.

ⁱPart of Tecumseh annexed to Stoughton Village 1960, incorporated as a town same year.

^jPart of Estevan annexed to Estevan City 1960 (a town previous to 1957).

^kPart of Weyburn annexed to Weyburn City 1954.

Source: Census of Canada, Dominion Bureau of Statistics, Ottawa.

Saskatchewan Municipal Directory, Department of Municipal Affairs, Regina, 1970.

Farm Population

The study area encompasses 22 rural municipalities listed in Table 5. The figures shown are the numbers of people living on census farms.¹ In every municipality and all three census divisions farm population decreased between 1941 and 1966 as it has for the entire province. For the province it declined 45.4 per cent while farm population in the three census divisions taken together declined 41.3 per cent. During the period 1956-66 farm population in Saskatchewan and in the three census divisions declined 22.4 per cent and 17.9 per cent respectively.

In the meantime, total population in Saskatchewan between 1956-66 increased 8.6 per cent (from 880,665 to 955,344) and the three census divisions experienced a slight decline of 2.0 per cent (from 100,563 to 98,552).

The combined effects of a substantial decline in farm population and an increase (or only a slight drop) in total population resulted in rather sharp declines in the proportion of persons on farms, from a provincial total of 41.1 per cent in 1956 to 29.4 per cent ten years later. The proportion of persons on farms in the three census divisions dropped from 50.3 per cent to 42.1 per cent during the same time period. These data serve to illustrate the familiar rural to urban migration trend.

¹For a definition of the term "census farm" the reader is referred to the Agriculture Census of Canada, 1966.

TABLE 5. FARM POPULATION IN THE STUDY AREA BY CENSUS DIVISION, RURAL MUNICIPALITY, AND PROVINCE, CENSUS YEARS 1941 TO 1966

Rural Municipalities	1941	1951	1956	1961	1966
<i>Census Division #1</i>					
Tecumseh	1,038	962	840	775	697
Benson	1,401	1,133	1,006	851	808
Estevan	1,391	1,157	1,153	818	1,007
<i>Census Division #2</i>					
Happy Valley	535	476	450	171	344
Surprise Valley	904	605	486	443	404
Brokenshell	825	655	563	528	493
Lake Alma	854	629	586	515	511
Lomond	874	800	788	665	554
Laurier	1,124	812	765	672	589
Cambria	1,206	948	820	639	591
Souris Valley	1,140	883	820	687	625
Norton	1,284	909	820	729	658
The Gap	1,235	925	895	820	680
Griffin	824	770	826	782	758
Bengough	1,283	965	848	532	758
Key West	1,669	1,169	1,054	934	831
Cymri	1,033	912	813	868	925
Weyburn	1,397	1,237	1,204	1,106	949
<i>Census Division #3</i>					
Poplar Valley	999	731	701	615	531
Hart Butte	1,095	833	764	663	580
Excel	1,980	1,242	1,142	961	864
Willow Bunch	1,749	1,233	1,171	1,053	941
<i>Census Division Totals^a</i>					
#1	21,964	19,934	18,155	15,199	15,343
#2	22,183	17,470	16,045	13,857	13,159
#3	26,579	17,487	16,339	14,546	13,013
Farm Population of Saskatchewan	514,677	399,473	362,231	305,740	281,089

^aIn addition to those rural municipalities listed, totals include populations of rural municipalities not in study area.

Source: Census of Canada, Dominion Bureau of Statistics, Ottawa.

Population by Sex and Age Groups

Tables 6 and 7 contain 1966 Census population data for incorporated communities, rural municipalities and census divisions making up the study area, as well as provincial totals. Rural municipalities are arranged in ascending order of population.

With only four minor exceptions (i.e. Goodwater, Creelman, Pangman and Midale) males outnumber females in the area, which is also true for the province. In Saskatchewan 51.2 per cent of population were male compared to 52.2 per cent in the total study area.

The age group that most closely represents the effective working population is the 20 to 64 age group. In the province this group comprises 47.8 per cent of the population. The study area closely approximates this at 47.6 per cent. People in the retired age group make up a significantly larger proportion of those living in incorporated communities than on farms and unincorporated communities. There does not appear to be much difference in this respect for the other two age groups.

TABLE 6. POPULATION BY SPECIFIED AGE GROUPS AND SEX FOR INCORPORATED COMMUNITIES, RURAL MUNICIPALITIES, AND CENSUS DIVISIONS IN THE STUDY AREA, 1966

		Years of Age											70 and over
Total		0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-69		
Incorporated Communities													
Horizon	T.	47	8	9	7	5	1	6	4	6	-	1	-
	M.	25	4	6	7	-	-	3	3	2	-	-	-
	F.	22	4	3	-	5	1	3	1	4	-	1	-
Hardy	T.	59	5	5	2	2	3	3	3	15	8	4	9
	M.	33	4	-	2	2	1	3	-	7	3	3	8
	F.	26	1	5	-	-	2	3	3	8	5	1	1
Heward	T.	119	12	10	14	9	3	9	17	19	8	8	10
	M.	64	8	4	6	5	1	5	10	12	3	6	4
	F.	55	4	6	8	4	2	4	7	7	5	2	6
Khedive	T.	121	20	11	13	12	9	9	11	18	7	2	9
	M.	69	14	5	7	6	6	5	4	11	3	1	7
	F.	52	6	6	6	6	3	4	7	7	4	1	2
Benson	T.	106	15	12	9	9	3	10	8	16	15	2	7
	M.	56	7	8	3	6	1	5	4	9	7	1	5
	F.	50	8	4	6	3	2	5	4	7	8	1	2
Forget	T.	139	16	17	22	13	3	7	15	14	20	3	9
	M.	75	6	10	14	7	2	3	8	9	10	2	4
	F.	64	10	7	8	6	1	4	7	5	10	1	5
Halbrite	T.	142	18	15	12	7	7	19	11	12	19	6	16
	M.	73	11	5	7	4	2	10	8	5	10	4	7
	F.	69	7	10	5	3	5	9	3	7	9	2	9
Goodwater	T.	101	14	14	12	10	8	6	11	9	6	4	7
	M.	50	11	5	4	4	4	3	5	6	3	2	3
	F.	51	3	9	8	6	4	3	6	3	3	2	4

See footnotes at end of table

(continued)

TABLE 6. POPULATION BY SPECIFIED AGE GROUPS AND SEX FOR INCORPORATED COMMUNITIES, RURAL MUNICIPALITIES, AND CENSUS DIVISIONS IN THE STUDY AREA, 1966 (continued)

		Years of Age											70 and over
		Total	0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-69	
Fife Lake	T.	119	7	13	17	11	7	4	12	12	24	3	9
	M.	68	3	9	9	11	5	1	7	3	12	3	5
	F.	51	4	4	8	-	2	3	5	9	12	-	4
Colgate	T.	96	14	10	10	6	4	13	3	10	15	3	8
	M.	56	8	7	4	6	1	8	1	3	9	3	6
	F.	40	6	3	6	-	3	5	2	7	6	-	2
Tribune	T.	144	15	20	24	14	12	13	16	14	6	3	7
	M.	76	6	13	14	6	5	6	8	9	4	2	3
	F.	68	9	7	10	8	7	7	8	5	2	1	4
Viceroy	T.	178	18	21	17	10	8	18	25	23	20	5	13
	M.	91	7	11	10	7	4	9	11	13	8	3	8
	F.	87	11	10	7	3	4	9	14	10	12	2	5
Macoun	T.	175	20	12	14	21	13	10	15	22	20	9	19
	M.	100	10	7	10	14	5	6	6	14	9	6	13
	F.	75	10	5	4	7	8	4	9	8	11	3	6
Lake Alma	T.	151	23	15	8	7	12	10	9	11	27	10	19
	M.	76	7	9	4	3	6	5	5	6	11	5	15
	F.	75	16	6	4	4	6	5	4	5	16	5	4
Minton	T.	219	21	31	20	18	8	21	25	21	23	11	20
	M.	112	14	10	9	11	4	12	11	13	13	4	11
	F.	107	7	21	11	7	4	9	14	8	10	7	9
Creelman	T.	191	18	23	16	22	5	19	23	14	16	7	28
	M.	92	8	7	9	13	3	7	12	9	5	3	16
	F.	99	10	16	7	9	2	12	11	5	11	4	12
Pangman	T.	248	18	21	34	19	14	13	24	36	26	9	34
	M.	121	13	8	16	13	6	5	12	15	16	4	13
	F.	127	5	13	18	6	8	8	12	21	10	5	21

See footnotes at end of table

(continued)

TABLE 6. POPULATION BY SPECIFIED AGE GROUPS AND SEX FOR INCORPORATED COMMUNITIES, RURAL MUNICIPALITIES, AND CENSUS DIVISIONS IN THE STUDY AREA, 1966 (continued)

		Years of Age											70 and over
		Total	0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-69	
Ceylon	T.	332	42	38	30	22	14	31	35	35	40	14	31
	M.	169	12	19	20	12	5	15	22	16	25	6	17
	F.	163	30	19	10	10	9	16	13	19	15	8	14
Torquay	T.	443	56	45	57	40	15	37	44	60	33	14	42
	M.	229	26	23	29	17	8	19	30	33	18	5	21
	F.	214	30	22	28	23	7	18	14	27	15	9	21
Willow Bunch	T.	631	59	69	74	55	29	57	69	62	55	20	82
	M.	333	31	37	41	31	13	32	34	33	26	10	45
	F.	298	28	32	33	24	16	25	35	29	29	10	37
Coronach	T.	474	60	38	54	47	49	42	46	42	38	17	41
	M.	251	32	20	28	28	26	26	25	17	15	10	24
	F.	223	28	18	26	19	23	16	21	25	23	7	17
Midale	T.	762	121	108	61	43	42	97	76	57	70	22	65
	M.	380	61	54	27	23	19	44	43	28	32	12	37
	F.	382	60	54	34	20	23	53	33	29	38	10	28
Ogema	T.	427	32	31	39	29	21	46	35	52	46	21	75
	M.	223	19	15	21	19	16	22	18	21	26	11	35
	F.	204	13	16	18	10	5	24	17	31	20	10	40
Lampman	T.	763	89	92	86	69	47	82	88	82	61	21	46
	M.	404	46	46	46	37	25	44	46	44	34	12	24
	F.	359	43	46	40	32	22	38	42	38	27	9	22
Bengough	T.	695	64	64	57	57	46	72	62	70	72	32	99
	M.	350	32	28	29	28	26	41	29	34	31	14	58
	F.	345	32	36	28	29	20	31	33	36	41	18	41
Stoughton	T.	749	64	62	71	58	55	64	84	77	66	30	118
	M.	389	37	25	40	31	39	31	44	36	34	12	60
	F.	360	27	37	31	27	16	33	40	41	32	18	58

See footnotes at end of table

(continued)

TABLE 6. POPULATION BY SPECIFIED AGE GROUPS AND SEX FOR INCORPORATED COMMUNITIES, RURAL MUNICIPALITIES, AND CENSUS DIVISIONS IN THE STUDY AREA, 1966 (continued)

		Years of Age											70 and over
		Total	0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-69	
Radville	T.	1,053	100	102	96	86	55	84	109	96	125	48	152
	M.	544	58	56	49	50	27	41	55	37	61	21	89
	F.	509	42	46	47	36	28	43	54	59	64	27	63
Estevan	T.	9,062	1,241	1,200	887	749	740	1,256	988	760	587	185	469
	M.	4,561	607	576	465	382	382	655	517	369	299	85	224
	F.	4,501	634	624	422	367	358	601	471	391	288	100	245
Weyburn	T.	9,000	1,015	894	820	732	695	1,103	1,024	960	809	265	683
	M.	4,506	514	475	402	343	325	572	553	469	395	131	327
	F.	4,494	501	419	418	389	370	531	471	491	414	134	356
Rural Municipalities ^a													
Happy Valley	T.	508	54	60	58	53	37	53	68	48	32	15	30
	M.	284	32	31	30	26	25	30	41	29	15	7	18
	F.	224	22	29	28	27	12	23	27	19	17	8	12
Poplar Valley	T.	559	46	73	86	63	29	41	95	60	38	8	20
	M.	309	25	38	40	39	18	18	54	35	23	4	15
	F.	250	21	35	46	24	11	23	41	25	15	4	5
Lake Alma	T.	620	79	74	97	53	21	68	96	57	46	11	18
	M.	343	44	40	50	26	13	38	52	31	30	5	14
	F.	277	35	34	47	27	8	30	44	26	16	6	4
Brokenshell	T.	633	84	74	81	62	35	70	66	72	60	7	22
	M.	351	42	38	38	41	21	39	37	38	37	6	14
	F.	282	42	36	43	21	14	31	29	34	23	1	8
Surprise Valley	T.	637	90	100	65	43	37	91	69	67	37	8	30
	M.	356	44	58	33	26	16	58	42	30	24	5	20
	F.	281	46	42	32	17	21	33	27	37	13	3	10

(continued)

See footnotes at end of table

TABLE 6. POPULATION BY SPECIFIED AGE GROUPS AND SEX FOR INCORPORATED COMMUNITIES, RURAL MUNICIPALITIES, AND CENSUS DIVISIONS IN THE STUDY AREA, 1966 (continued)

		Years of Age											70 and over
		Total	0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-69	
Hart Butte	T.	640	77	81	89	65	36	64	75	71	45	15	22
	M.	346	38	37	44	38	23	39	39	37	28	8	15
	F.	294	39	44	45	27	13	25	36	34	17	7	7
Lomond	T.	649	51	66	86	82	29	49	87	81	77	15	26
	M.	360	33	33	45	50	18	29	41	39	46	8	18
	F.	289	18	33	41	32	11	20	46	42	31	7	8
Cambria	T.	661	86	91	95	71	36	58	72	78	49	9	16
	M.	353	45	42	49	38	20	31	36	42	32	7	11
	F.	308	41	49	46	33	16	27	36	36	17	2	5
The Gap	T.	675	59	81	96	68	37	60	82	85	63	12	32
	M.	365	29	37	48	35	24	35	40	51	36	10	20
	F.	310	30	44	48	33	13	25	42	34	27	2	12
Norton	T.	699	63	101	89	65	28	51	76	117	62	13	34
	M.	382	35	56	42	41	18	21	37	67	38	9	18
	F.	317	28	45	47	24	10	30	39	50	24	4	16
Bengough	T.	770	93	121	97	60	27	84	104	88	55	16	25
	M.	417	47	53	54	31	17	42	62	50	37	10	14
	F.	353	46	68	43	29	10	42	42	38	18	6	11
Tecumseh	T.	787	115	87	82	71	44	94	75	108	69	17	25
	M.	454	70	48	45	44	22	55	43	50	51	11	15
	F.	333	45	39	37	27	22	39	32	58	18	6	10
Souris Valley	T.	797	76	91	97	96	40	58	119	97	66	26	31
	M.	456	42	51	54	57	27	27	62	58	44	18	16
	F.	341	34	40	43	39	13	31	57	39	22	8	15
Laurier	T.	858	103	118	121	75	45	97	94	91	68	14	32
	M.	452	52	60	66	33	26	45	56	50	39	8	17
	F.	406	51	58	55	42	19	52	38	41	29	6	15

See footnotes at end of table

(continued)

TABLE 6. POPULATION BY SPECIFIED AGE GROUPS AND SEX FOR INCORPORATED COMMUNITIES, RURAL MUNICIPALITIES, AND CENSUS DIVISIONS IN THE STUDY AREA, 1966 (continued)

		Years of Age											70 and over
		Total	0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-69	
Benson	T.	877	114	132	115	91	51	84	116	82	61	14	17
	M.	482	68	67	64	48	25	48	58	50	36	10	8
	F.	395	46	65	51	43	26	36	58	32	25	4	9
Cymri	T.	887	94	126	120	92	47	83	105	98	76	19	27
	M.	483	50	62	65	47	31	44	57	48	49	16	14
	F.	404	44	64	55	45	16	39	48	50	27	3	13
Griffin	T.	983	120	139	143	94	41	80	129	122	66	16	33
	M.	526	70	64	74	50	22	36	65	73	42	10	20
	F.	457	50	75	69	44	19	44	64	49	24	6	13
Key West	T.	1,018	73	119	116	108	49	85	144	160	81	34	49
	M.	536	39	58	54	55	24	44	71	93	49	18	31
	F.	482	34	61	62	53	25	41	73	67	32	16	18
Willow Bunch	T.	1,137	145	164	166	115	40	96	141	118	90	24	38
	M.	609	75	89	81	60	25	52	69	64	61	15	18
	F.	528	70	75	85	55	15	44	72	54	29	9	20
Weyburn	T.	1,300	152	155	151	121	63	156	152	163	111	29	47
	M.	688	75	75	75	62	34	86	80	86	64	22	29
	F.	612	77	80	76	59	29	70	72	77	47	7	18
Excel	T.	1,325	138	159	178	102	62	127	180	191	95	26	67
	M.	696	65	83	93	57	29	58	101	98	59	13	40
	F.	629	73	76	85	45	33	69	79	93	36	13	27
Estevan	T.	1,546	235	225	199	149	110	154	181	148	80	22	43
	M.	823	125	126	102	74	53	88	95	82	42	13	23
	F.	723	110	99	97	75	57	66	86	66	38	9	20

See footnotes at end of table

(continued)

TABLE 6. POPULATION BY SPECIFIED AGE GROUPS AND SEX FOR INCORPORATED COMMUNITIES, RURAL MUNICIPALITIES, AND CENSUS DIVISIONS IN THE STUDY AREA, 1966 (concluded)

		Years of Age												70 and over
		Total	0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-69		
Study Area Total	T.	45,312	5,352	5,439	5,010	3,981	2,872	4,964	5,218	4,827	3,689	1,149	2,811	
	M.	23,647	2,761	2,744	2,578	2,097	1,498	2,601	2,769	2,484	2,004	614	1,497	
	F.	21,665	2,591	2,695	2,432	1,884	1,374	2,363	2,449	2,343	1,685	535	1,314	
Census Division #1	T.	39,441	4,606	4,789	4,406	3,572	2,456	4,213	4,543	4,247	3,175	1,067	2,367	
	M.	20,729	2,398	2,379	2,322	1,913	1,322	2,256	2,356	2,216	1,768	581	1,218	
	F.	18,712	2,208	2,410	2,084	1,659	1,134	1,957	2,187	2,031	1,407	486	1,149	
#2	T.	32,489	3,465	3,644	3,609	2,884	1,853	3,296	3,805	3,803	2,944	950	2,236	
	M.	17,070	1,788	1,856	1,871	1,508	977	1,717	2,040	1,968	1,629	510	1,206	
	F.	15,419	1,677	1,788	1,738	1,376	876	1,579	1,765	1,835	1,315	440	1,030	
#3	T.	26,622	2,681	3,125	3,204	2,499	1,324	2,334	3,295	3,165	2,058	792	2,145	
	M.	13,919	1,344	1,608	1,656	1,329	716	1,187	1,707	1,676	1,101	370	1,225	
	F.	12,703	1,337	1,517	1,548	1,170	608	1,147	1,588	1,489	957	422	920	
Provincial Total	T.	955,344	107,515	110,130	103,304	88,412	62,150	104,651	110,413	103,270	76,617	27,264	61,618	
	M.	489,040	54,979	56,128	53,042	44,786	31,551	53,255	56,052	52,290	40,352	14,057	32,548	
	F.	466,304	52,536	54,002	50,262	43,626	30,599	51,396	54,361	50,980	36,265	13,207	29,070	

T. - Total M. - Male F. - Female

^aRural municipality data include farm and unincorporated community population but exclude populations of incorporated communities.

Source: Census of Canada, 1966, Dominion Bureau of Statistics, Ottawa.

TABLE 7. PROPORTION OF POPULATION FALLING WITHIN THREE SPECIFIED AGE GROUPS, 1966

	Pre-School and School Age Groups (0 to 19 years)	Working Age Group (20 to 64)	Retired Age Group (65 and Over)
	- per cent -		
<i>Incorporated Communities</i>			
Horizon	61.7	36.2	2.1
Hardy	23.7	54.3	22.0
Heward	37.8	47.1	15.1
Khedive	46.3	44.6	9.1
Benson	42.4	49.1	8.5
Forget	48.9	42.5	8.6
Halbrite	36.6	47.9	15.5
Goodwater	49.5	39.6	10.9
Fife Lake	40.3	49.6	10.1
Colgate	41.7	46.9	11.4
Tribune	50.7	42.4	6.9
Viceroy	37.1	52.8	10.1
Macoun	38.3	45.7	16.0
Lake Alma	35.1	45.7	19.2
Minton	41.1	44.7	14.2
Creelman	41.4	40.3	18.3
Pangman	37.1	45.6	17.3
Ceylon	39.7	46.7	13.6
Torquay	44.7	42.7	12.6
Willow Bunch	40.7	43.1	16.2
Coronach	42.0	45.8	12.2
Midale	43.7	44.9	11.4
Ogema	30.7	46.8	22.5
Lampman	44.0	47.2	8.8
Bengough	34.8	46.3	18.9
Stoughton	34.0	46.2	19.8
Radville	36.5	44.5	19.0
Estevan	45.0	47.8	7.2
Weyburn	38.5	51.0	10.5
<i>Rural Municipalities^a</i>			
Happy Valley	44.3	46.9	8.8
Poplar Valley	47.9	47.0	5.1
Lake Alma	48.9	46.5	4.6
Brokenshell	47.6	47.9	4.5
Surprise Valley	46.8	47.3	5.9
Hart Butte	48.8	45.5	5.7
Lomond	43.9	49.8	6.3
Cambria	51.9	44.3	3.8
The Gap	45.1	48.4	6.5

See footnotes at end of table

(continued)

TABLE 7. PROPORTION OF POPULATION FALLING WITHIN THREE SPECIFIED AGE GROUPS, 1966 (concluded)

	Pre-School and School Age Groups (0 to 19 years)	Working Age Group (20 to 64)	Retired Age Group (65 and Over)
- per cent -			
Norton	45.5	47.8	6.7
Bengough	48.1	46.4	5.5
Tecumseh	45.1	49.6	5.3
Souris Valley	45.2	47.6	7.2
Laurier	48.6	46.0	5.4
Benson	51.5	44.9	3.6
Cymri	48.7	46.1	5.2
Griffin	50.5	44.6	4.9
Key West	40.9	51.0	8.1
Willow Bunch	51.9	42.7	5.4
Weyburn	44.6	49.6	5.8
Excel	43.6	49.4	7.0
Estevan	52.3	43.5	4.2
Study Area Total	43.8	47.6	8.6
Division Totals #1	44.1	47.3	8.6
#2	41.9	48.3	9.8
#3	43.2	45.7	11.1
Provincial Total	42.9	47.8	9.3

^aRural municipality data include farm and unincorporated community population but exclude populations of incorporated communities.

Source: Calculated from Table 6.

School Enrolment

It is evident from school enrolment figures (Table 8) that the trend in Western Canada towards school consolidation has affected the Weyburn study area as well. Of communities too small to classify and of the hamlets only Outram has a school and it is for grades 1 - 8 only. Most of the 23 villages have elementary schools but only five offer high school (i.e. Gladmar, Goodwater, Oungre, Macoun and Creelman). All the larger centers have both elementary and high schools. Weyburn and Estevan have both public and separate schools.

TABLE 8. SCHOOL ENROLMENT IN THE STUDY AREA BY GRADES, SCHOOL YEAR 1968-69

Delivery Point	Grades:	1	2	3	4	5	6	7	8	9	10	11	12	Aux	Total	Conveyed
- enrolment -																
<i>Too Small to Classify</i>																
Brough																To Weyburn
Axford																To Khedive & Pangman
Gye																To Willow Bunch
Abbott																To Khedive & Pangman
Brooking																To Radville
Blewett																To Macoun
Blooming																To Lake Alma & Gladmar
Caxton																To Stoughton
Buffalo Gap																To Big Beaver & Coronach
Clearfield																To Radville
Innes																To Griffin & Weyburn
Ritchie																To Bengough
Roncott																To Bengough
Bryant																To Benson & Lampman
Union Jack																To Weyburn
Hoffer																To Oungre
Viewfield																To Benson & Lampman
Cullen																To Benson & Lampman
Hume																To Weyburn
Hitchcock																To Macoun
<i>Hamlets</i>																
Grassdale																To Weyburn
Talmage																To Weyburn
Huntoon																To Froude, Griffin & Weyburn
Ralph																To Halbrite & Weyburn
East Poplar																To Coronach
Hart																To Coronach
Ratcliffe																To Oungre
Glasnevin																To Ogea
Harptree																To Willow Bunch
Horizon																To Bengough
Outram	5	9	1	5	10	6	4	11	-	-	-	-	-	-	51	(9-12) To Torquay
Woodley																To Benson & Lampman
Constance																To Rockglen
Hardy																To Ceylon
Amulet																To Pangman or Ogea
Heward																To Stoughton

See footnotes at end of table

(continued)

TABLE 8. SCHOOL ENROLMENT IN THE STUDY AREA BY GRADES, SCHOOL YEAR 1968-69 (continued)

Delivery Point	Grades:	1	2	3	4	5	6	7	8	9	10	11	12	Aux	Total	Conveyed
							- enrolment -									
<i>Villages</i>																
Froude	3	4	5	7	1	2	3	3	3	-	-	-	-	-	28	(9-12) to Weyburn To Lake Alma & Gladmar
Beaubier	8	7	5	10	13	12	9	9	9	12	-	-	-	-	85	(10-12) to Pangman
Khedive	3	5	8	0	5	5	8	5	5	-	-	-	-	-	39	(9-12) to Assiniboia To Rockglen
Scout Lake	8	10	5	8	12	8	7	7	5	-	-	-	-	-	63	(9-12) to Yellow Grass
Trossachs	-	-	-	-	-	-	20	23	23	39	42	19	17	-	160	(1-6) to Minton
Gladmar	9	16	15	15	14	17	11	13	13	9	-	-	-	-	119	(10-12) to Lampman
Benson	5	7	7	10	12	7	16	12	12	14	-	-	-	-	90	(10-12) to Weyburn
Griffin	7	6	9	4	9	6	-	-	-	-	-	-	-	-	41	(7-12) to Stoughton
Forget	9	9	15	6	10	7	8	8	11	-	-	-	-	9	84	(9-12) to Midale To Oungre
Halbrite																
Bromhead	6	5	8	5	5	12	13	13	11	14	15	15	11	-	120	(7-12) to Rockglen
Goodwater	8	3	4	6	7	8	-	-	-	-	-	-	-	-	36	(7-12) to Rockglen
Fife Lake	14	16	13	8	13	15	18	8	8	19	23	21	16	-	184	(7-12) to Goodwater
Oungre	4	2	4	2	6	4	-	-	-	-	-	-	-	-	22	(7-12) to Goodwater
Colgate	8	13	13	7	7	8	17	10	10	-	-	-	-	-	83	(9-12) to Oungre
Tribune	11	10	10	11	8	9	5	5	5	11	-	-	-	-	80	(10-12) to Assiniboia
Viceroy	20	27	19	18	24	16	24	16	16	18	18	15	12	-	227	(11-12) to Coronach
Macoun	11	11	10	12	17	9	6	12	12	15	7	-	-	-	110	(9-12) to Gladmar
Big Beaver	20	19	23	19	24	24	21	21	21	-	-	-	-	-	171	(9-12) to Gladmar
Lake Alma	24	29	34	33	25	12	-	-	-	-	-	-	-	-	157	(7-12) to Gladmar
Minton	7	17	11	9	10	21	9	9	7	13	12	12	11	-	139	
Creelman																
<i>Towns</i>																
Pangman	10	13	8	13	11	13	13	13	11	20	23	21	19	-	175	
Ceylon	15	10	19	18	15	22	24	24	18	19	13	12	16	-	201	
Torquay	23	22	21	22	19	22	18	24	24	20	25	22	15	-	253	
Willow Bunch	27	27	36	41	26	25	32	32	40	33	39	23	26	-	375	
Coronach	27	26	28	34	28	37	27	27	27	22	33	23	15	-	327	
Midale	28	31	31	26	32	31	37	37	27	37	26	15	13	-	334	
Ogema	20	26	33	24	30	32	20	20	28	39	24	30	12	-	318	
<i>Greater Towns</i>																
Lampman	44	41	48	40	56	43	46	46	39	75	28	33	43	-	536	
Bengough	37	39	42	37	50	30	31	31	28	28	27	32	19	-	400	
Stoughton	35	49	39	35	37	37	57	48	48	44	53	38	23	-	495	
Radville	19	14	16	19	15	16	18	18	20	53	45	25	25	-	285	

See footnotes at end of table

(continued)

TABLE 8. SCHOOL ENROLMENT IN THE STUDY AREA BY GRADES, SCHOOL YEAR 1968-69 (concluded)

Delivery Point	Grades:	1	2	3	4	5	6	7	8	9	10	11	12	Aux	Total	Conveyed
- enrolment -																
<i>Cities</i>																
Estevan																
Public		189	161	168	177	176	154	156	133	214	193	163	126	15	2,025	
Separate		128	104	95	106	94	99	87	103	-	-	-	-	8	824	
Unit Central		7	10	8	11	12	6	5	13	-	-	-	-	13	85	
Weyburn																
Public		151	115	131	147	122	150	188	211	170	193	167	174	18	1,937	
Separate		77	59	60	53	48	47	54	53	44	-	-	-	-	495	
Unit Central		43	39	45	41	30	52	-	-	-	-	-	-	-	250	
Aux - Auxiliary classes																

Source: Department of Education, Regina, Saskatchewan.

Post Office Revenue

Post office revenues serve as a crude indicator of socio-economic activity in a community and its environs (Table 9). The last post office in communities too small to classify was closed in 1966 at Viewfield. Nine of the hamlets have post offices. All hamlet post office revenues in recent years have been less than a thousand dollars and some like Harptree and Horizon have experienced substantial downward trends. Village post office revenues in 1968-69 range from about \$600 to just under \$2,700. Revenues in towns are in the \$3,000 to \$7,000 brackets and all generally experiencing upward trends. Ogema increased 53.4 per cent over the twelve-year period.

The greatest percentage increase of all centers occurred in Stoughton which showed a rise of 76.3 per cent. Bengough increased 75.7 per cent.

Both Estevan and Weyburn showed substantial increases. Weyburn had the largest dollar increase - \$43,157 or 57.9 per cent. The two cities alone accounted for 68.2 per cent of the total post office revenue of \$345,355 in the study area.

TABLE 9. POST OFFICE REVENUE IN THE STUDY AREA, FISCAL YEARS 1957-58 TO 1968-69

	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65	1965-66	1966-67	1967-68	1968-69
- dollars -												
<i>Too Small to Classify</i>												
Brough	Closed - 1932											
Axford	Closed - 1920											
Gye	No Post Office											
Abbott	No Post Office											
Brooking	266	184	131	17	Closed - 1961							
Blewett	No Post Office											
Blooming	Closed - 1954											
Caxton	No Post Office											
Buffalo Gap	225	201	152	174	Closed - 1962							
Clearfield	292											
Innes	147	122	93	104	79	27	Closed - 1963					
Ritchie	69	Closed - 1958										
Roncott	39	Closed - 1959										
Bryant	No Post Office											
Union Jack	No Post Office											
Hoffer	229	198	87	Closed - 1960	187	200	191	80	Closed - 1966			
Viewfield	300	288	217	223	42	12	Closed - 1964					
Cullen	36	35	49	29	149	67	Closed - 1964					
Hume	168	169	114	115	111							
Hitchcock	21	Closed - 1957										
<i>Hamlets</i>												
Grassdale	Closed - 1949											
Talmage	521	494	531	643	582	471	418	19	Closed - 1966			
Huntoon	282	254	236	251	260	289	232	121	Closed - 1966			
Ralph	Closed - 1948											
East Poplar	248	179	176	176	235	196	Closed - 1964					
Hart	Closed - 1956											
Ratcliffe	552	467	460	458	117	Closed - 1962	483	466	437	465		
Glasnevin	418	363	380	400	426	491	506	227	158	105		
Harptree	349	311	331	338	335	323	299	268	341	167		
Horizon	1,027	774	423	453	464	464	417	426	595	738		
Outram	506	561	531	606	589	583	649	680	738	738		
Woodley	301	240	214	207	203	206	247	271	282	294		
Constance	440	366	364	315	357	364	357	349	307	340		
Hardy	893	824	858	901	894	758	893	798	678	701		
Amulet	705	665	649	529	467	478	479	475	500	517		
Heward	934	987	948	960	970	972	1,030	903	803	859	821	
<i>Villages</i>												
Froude ^a	687	684	710	609	722	619	608	714	735	680	688	639
Beaubier	525	453	459	466	446	711	792	755	750	761	935	895
Khediye	877	848	842	838	912	914	974	1,031	949	918	899	860
Verwood	751	709	684	742	853	805	889	926	860	810	815	735

See footnotes at end of table

(continued)

TABLE 9. POST OFFICE REVENUE IN THE STUDY AREA, FISCAL YEARS, 1957-58 TO 1968-69 (concluded)

	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65	1965-66	1966-67	1967-68	1968-69
	- dollars -											
Scout Lake	749	710	681	655	675	662	598	704	671	654	645	611
Trossachs	815	804	801	940	785	957	825	949	874	880	919	978
Gladmar	1,114	1,100	1,053	1,079	1,195	1,278	1,278	1,440	1,445	1,440	1,556	1,581
Benson	1,416	1,339	1,367	1,216	1,140	1,154	1,200	1,246	1,310	1,260	1,248	1,243
Griffin	964	965	871	934	911	935	982	1,057	1,039	1,044	1,089	1,081
Forget	1,483	1,520	1,495	1,587	1,544	1,694	1,714	1,522	1,361	1,324	1,159	1,204
Halbrite	1,324	1,317	1,290	1,374	1,310	1,314	1,339	1,238	1,150	1,121	1,137	1,225
Bromhead	1,066	1,028	963	911	901	878	884	967	798	767	745	700
Goodwater	713	691	733	747	854	853	905	948	868	897	887	794
Fife Lake	1,919	1,945	1,756	1,453	1,321	1,340	1,347	1,362	1,279	1,198	1,251	1,288
Oungre	972	976	996	1,060	1,064	1,140	1,215	1,292	1,242	1,254	1,302	1,273
Colgate	612	755	864	835	846	996	1,058	1,073	1,101	1,164	883	729
Tribune	907	937	919	950	990	1,001	1,026	1,029	1,027	1,057	1,165	1,107
Viceroy	3,321	2,915	2,759	2,574	2,614	2,656	2,632	2,828	2,828	2,899	2,978	2,191
Macoun	1,672	1,557	1,478	1,571	1,501	1,599	1,614	1,802	1,729	1,545	1,649	1,616
Big Beaver	1,225	1,211	1,202	1,226	1,353	1,407	1,374	1,463	1,503	1,434	1,469	1,374
Lake Alna	1,828	1,835	1,843	1,870	1,868	1,921	2,015	2,148	2,182	2,335	2,281	2,232
Minton	2,028	1,811	1,804	1,897	1,966	2,053	2,213	2,450	2,694	2,743	2,516	2,500
Creelman	2,130	2,073	2,179	2,232	2,373	2,446	2,479	2,640	2,600	2,527	2,685	2,697
<i>Towns</i>												
Pangman	2,449	2,457	2,587	2,785	2,864	2,668	2,770	3,277	3,316	3,275	3,166	3,089
Ceylon	3,099	2,931	2,894	3,012	3,074	3,036	3,157	3,526	3,476	3,545	3,667	3,530
Torquay	2,905	3,023	2,923	2,931	2,934	3,046	2,995	3,384	3,403	3,350	3,404	3,376
Willow Bunch	4,971	4,578	4,861	4,935	5,085	4,987	5,403	5,866	6,017	5,399	5,476	5,340
Coronach	4,294	4,540	4,188	4,017	4,215	4,320	4,869	5,358	5,586	5,828	6,334	6,365
Midale	6,254	6,273	5,968	6,194	6,579	6,977	6,655	7,434	7,446	7,179	7,849	7,757
Ogema	4,161	4,247	4,544	4,575	4,947	5,072	5,605	6,094	6,114	6,215	6,315	6,382
<i>Greater Towns</i>												
Lampman	4,499	4,030	4,516	3,878	3,817	4,125	4,554	5,480	5,947	6,249	6,251	6,455
Bengough	5,563	5,629	6,070	6,273	6,532	6,855	6,908	7,875	8,296	8,918	9,400	9,774
Stoughton	5,757	5,634	5,880	6,282	6,632	7,615	7,615	7,920	8,592	9,569	10,077	10,200
Radville	9,393	9,183	9,152	9,221	9,970	12,069	11,494	12,177	13,339	12,448	12,969	13,878
<i>Cities</i>												
Estevan	80,978	79,881	81,958	81,669	80,616	88,730	85,598	95,406	100,719	105,124	107,616	117,909
Weyburn	74,587	74,526	78,477	78,896	76,981	79,649	86,652	95,497	99,974	106,091	111,836	117,744

aFroude closed end of 1969

Source: Post Office Department, Ottawa.

Property Tax Assessment

The property tax assessment figures in Table 10 show the relative importance of railway property and other right-of-way occupancies to the total assessment of each community in the area. Generally speaking, the larger the community with respect to number of service activities, the lower is the proportion of tax assessment related to railway associated property. This is dramatically portrayed by comparing the proportions in communities too small to classify with those in greater towns and cities. In many small centers railway associated assessment made up 100 per cent of the total while in Estevan it accounted for only 2.4 per cent.

A notable exception is Buffalo Gap where there is no other right-of-way property (i.e. no grain elevator) but a significant amount of assessment for non-right-of-way property (i.e. several residences) resulting in a low percentage of tax assessment derived from railway right-of-way property (17.1 per cent).

TABLE 10. PROPERTY TAX ASSESSMENT FOR COMMUNITIES IN THE STUDY AREA, 1970

	Too Small to Classify						
	Brough	Axford	Gye	Abbott	Brooking	Blewett	Blooming
							Caxton
- dollars -							
<i>Right-of-Way Properties</i>							
Railway Property							
Roadway	-	-	-	-	-	-	-
Other Land	360	650	440	390	70	340	530
Buildings	-	150	-	-	-	-	100
Business	-	100	-	-	-	-	100
Other Property							
Taxable Land	40	40	50	40	60	260	60
Taxable Buildings	5,710	6,500	-	7,820	12,470	5,500	7,330
Taxable Business	1,560	1,740	-	1,560	2,020	1,560	1,600
Total Assessment of R.O.W. Properties	7,670	9,180	490	9,810	14,620	7,660	9,720
<i>Non-Right-of-Way Properties</i>							
Taxable Land	-	50	-	-	120	-	-
Taxable Buildings	-	-	-	-	2,420	-	-
Taxable Business	-	-	-	-	-	-	-
Total Assessment of Non-Right-of-Way Properties	-	50	-	-	2,540	-	-
Total Tax Assessment	7,670	9,230	490	9,810	17,160	7,660	9,720
Per Cent of Tax Assessment derived from R.O.W. Properties	100.0	99.5	100.0	100.0	85.2	100.0	100.0

See footnotes at end of table

(continued)

TABLE 10. PROPERTY TAX ASSESSMENT FOR COMMUNITIES IN THE STUDY AREA, 1970 (continued)

	Too Small to Classify				Hamlets		
	Viewfield	Cullen	Hume	Hitchcock	Grassdale	Talmage	Huntoon
<i>Right-of-Way Properties</i>							
Railway Property							
Roadway	-	-	-	-	-	-	-
Other Land	390	380	520	360	320	450	410
Buildings	150	-	190	380	-	2,840	-
Business	100	-	-	100	-	290	-
Other Property							
Taxable Land	40	40	80	30	80	110	40
Taxable Buildings	11,190	7,570	5,820	9,860	10,850	18,580	8,880
Taxable Business	2,080	1,500	1,560	2,020	3,060	3,880	2,120
Total Assessment of R.O.W. Properties	13,950	9,490	8,170	12,750	14,310	26,150	11,450
<i>Non-Right-of-Way Properties</i>							
Taxable Land	300	10	1,400	2,720	-	1,650	800
Taxable Buildings	1,530	1,230	5,690	22,330	-	4,830	3,130
Taxable Business	-	-	-	-	-	-	-
Total Assessment of Non-Right-of-Way Properties	1,830	1,240	7,090	25,050	-	6,480	3,930
Total Tax Assessment	15,780	10,730	15,260	37,800	14,310	32,630	15,380
Per Cent of Tax Assessment derived from R.O.W. Properties	88.4	88.4	53.5	33.7	100.0	80.1	74.4

- dollars -

See footnotes at end of table

(continued)

TABLE 10. PROPERTY TAX ASSESSMENT FOR COMMUNITIES IN THE STUDY AREA, 1970 (continued)

	Hamlets						Villages	
	Outram	Woodley	Constance	Hardy	Amulet	Heward	Froude	Beaubier
- dollars -								
<i>Right-of-Way Properties</i>								
Railway Property								
Roadway	-	-	-	1,500	-	2,450	-	-
Other Land	550	410	570	530	360	750	660	170
Buildings	750	180	120	1,530	240	1,960	1,200	-
Business	100	100	100	200	-	-	100	-
Other Property								
Taxable Land	230	80	230	130	260	560	140	200
Taxable Buildings	28,200	14,410	21,080	21,860	13,550	27,900	10,370	8,440
Taxable Business	4,090	3,140	5,030	3,700	3,750	5,330	3,040	1,520
Total Assessment of R.O.W. Properties	33,920	18,320	27,130	29,450	18,160	38,950	15,510	10,330
<i>Non-Right-of-Way Properties</i>								
Taxable Land	1,240	840	1,210	4,720	5,090	9,800	2,880	2,590
Taxable Buildings	13,020	7,550	4,880	29,270	9,470	53,510	16,140	41,380
Taxable Business	1,210	890	-	3,950	820	1,670	1,750	6,070
Total Assessment of Non-Right-of-Way Properties	15,470	9,280	6,090	37,940	15,380	64,980	20,770	50,040
Total Tax Assessment	49,390	27,600	33,220	67,390	33,540	103,930	36,280	60,370
Per Cent of Tax Assessment derived from R.O.W. Properties	68.7	66.4	81.7	43.7	54.1	37.5	42.8	17.1

See footnotes at end of table

(continued)

TABLE 10. PROPERTY TAX ASSESSMENT FOR COMMUNITIES IN THE STUDY AREA, 1970 (continued)

	Villages							
	Khedive	Verwood	Scout Lake	Trossachs	Gladmar	Benson	Griffin	Forget
	- dollars -							
<i>Right-of-Way Properties</i>								
Railway Property								
Roadway	1,650	-	-	-	2,420	1,710	-	1,530
Other Land	890	1,010	550	750	970	720	610	960
Buildings	210	150	1,810	210	-	1,820	1,140	1,870
Business	100	100	100	-	-	100	-	240
Other Property								
Taxable Land	550	410	80	210	680	260	370	470
Taxable Buildings	23,040	31,580	22,270	12,240	42,360	25,770	25,830	19,600
Taxable Business	4,060	5,710	6,920	1,600	12,340	3,950	6,320	3,810
Total Assessment of R.O.W. Properties	30,500	38,960	31,730	15,010	58,770	34,330	34,270	28,480
<i>Non-Right-of-Way Properties</i>								
Taxable Land	6,140	3,960	2,170	3,870	5,650	6,450	8,570	16,610
Taxable Buildings	42,430	30,810	26,780	23,430	66,730	54,110	37,910	70,220
Taxable Business	5,170	2,500	2,030	1,990	8,560	2,600	1,820	7,200
Total Assessment of Non-Right-of-Way Properties	53,740	37,270	30,980	29,290	80,940	63,160	48,300	94,030
Total Tax Assessment	84,240	76,230	62,710	44,300	139,710	97,490	82,570	122,510
Per Cent of Tax Assessment derived from R.O.W. Properties	36.2	51.1	50.6	33.9	42.1	35.2	41.5	23.2

See footnotes at end of table

(continued)

TABLE 10. PROPERTY TAX ASSESSMENT FOR COMMUNITIES IN THE STUDY AREA, 1970 (continued)

	Villages						
	Halbrite	Bromhead	Goodwater	Fife Lake	Oungre	Colgate	Tribune Viceroy
- dollars -							
<i>Right-of-Way Properties</i>							
Railway Property							
Roadway	1,240	-	1,530	1,670	-	1,500	2,370
Other Land	650	830	630	1,090	590	560	1,340
Buildings	280	2,670	-	3,260	270	-	320
Business	-	-	-	1,080	-	-	-
Other Property							
Taxable Land	140	440	370	30	140	210	80
Taxable Buildings	16,860	31,410	33,760	45,740	15,230	29,920	43,230
Taxable Business	2,400	6,430	8,670	8,990	3,430	4,820	9,690
Total Assessment of R.O.W. Properties	21,570	41,780	44,960	61,910	19,660	37,010	57,030
<i>Non-Right-of-Way Properties</i>							
Taxable Land	16,910	7,500	5,710	12,870	2,590	4,430	21,400
Taxable Buildings	92,620	46,160	40,660	75,060	35,630	56,970	114,530
Taxable Business	2,890	8,290	4,120	10,010	5,360	2,970	16,360
Total Assessment of Non-Right-of-Way Properties	112,420	61,950	50,490	97,940	43,580	64,370	152,290
Total Tax Assessment	133,990	103,730	95,450	159,850	63,240	101,380	209,320
Per Cent of Tax Assessment derived from R.O.W. Properties	16.1	40.3	47.1	38.7	31.1	36.5	27.2

See footnotes at end of table

(continued)

TABLE 10. PROPERTY TAX ASSESSMENT FOR COMMUNITIES IN THE STUDY AREA, 1970 (continued)

	Villages					Towns		
	Macoun	Big Beaver	Lake Alma	Minton	Creelman	Pangman	Ceylon	Torquay
- dollars -								
<i>Right-of-Way Properties</i>								
Railway Property								
Roadway	2,970	-	1,590	1,710	1,990	1,420	2,040	3,020
Other Land	840	1,390	800	980	1,960	1,910	2,000	2,920
Buildings	-	3,980	-	2,220	720	1,590	3,640	1,560
Business	-	560	-	140	100	-	780	-
Other Property								
Taxable Land	600	960	420	110	2,020	2,090	1,660	2,670
Taxable Buildings	32,610	40,490	24,630	25,840	74,250	44,210	68,830	81,350
Taxable Business	5,090	11,740	4,830	3,920	15,210	14,480	15,750	14,840
Total Assessment of R.O.W. Properties	42,110	59,120	32,270	34,920	96,250	65,700	94,700	106,360
<i>Non-Right-of-Way Properties</i>								
Taxable Land	19,990	5,560	12,020	25,340	18,830	35,564	37,100	68,730
Taxable Buildings	110,990	61,130	109,410	170,100	131,200	214,815	208,930	288,590
Taxable Business	9,210	6,230	10,350	21,430	20,470	20,500	25,240	37,290
Total Assessment of Non-Right-of-Way Properties	140,190	72,920	131,780	216,870	170,500	270,879	271,270	394,610
Total Tax Assessment	182,300	132,040	164,050	251,790	266,750	336,579	365,970	500,970
Per Cent of Tax Assessment derived from R.O.W. Properties	23.1	44.8	19.7	13.9	36.1	19.5	25.9	21.2

See footnotes at end of table

(continued)

TABLE 10. PROPERTY TAX ASSESSMENT FOR COMMUNITIES IN THE STUDY AREA, 1970 (continued)

	Towns					Greater Towns			
	Willow Bunch	Coronach	Midale	Ogema	Lampman	Bengough	Stoughton	Radville	
- dollars -									
<i>Right-of-Way Properties</i>									
Railway Property									
Roadway	3,000	1,770	4,960	2,660	9,700	3,950	7,530	4,350	
Other Land	2,100	2,590	3,720	3,260	2,510	4,070	3,460	5,630	
Buildings	5,700	2,970	2,980	4,010	4,170	4,850	3,930	10,410	
Business	1,300	960	100	1,010	1,110	830	-	3,240	
Other Property									
Taxable Land	1,960	2,440	3,720	4,360	2,120	4,170	3,800	780	
Taxable Buildings	63,270	57,230	70,920	75,210	55,290	70,030	83,780	95,670	
Taxable Business	15,170	16,250	21,060	18,150	17,390	21,470	17,090	20,600	
Total Assessment of R.O.W. Properties	92,500	84,210	107,460	108,660	92,290	109,370	119,590	140,680	
<i>Non-Right-of-Way Properties</i>									
Taxable Land	97,610	48,690	109,210	91,570	123,290	182,080	107,160	225,500	
Taxable Buildings	446,900	305,985	507,780	358,230	582,570	644,540	718,560	962,770	
Taxable Business	54,450	50,490	62,610	61,850	68,730	130,930	121,320	145,860	
Total Assessment of Non-Right-of-Way Properties	598,960	405,165	679,600	511,650	774,590	957,550	947,040	1,334,130	
Total Tax Assessment	691,460	489,375	787,060	620,310	866,880	1,066,920	1,066,630	1,474,810	
Per Cent of Tax Assessment derived from R.O.W. Properties	13.4	17.2	13.7	17.5	10.7	10.3	11.2	9.5	

See footnotes at end of table (continued)

TABLE 10. PROPERTY TAX ASSESSMENT FOR COMMUNITIES IN THE STUDY AREA, 1970 (concluded)

	Cities					
	C.N. Estevan	C.P. Estevan	Total Estevan	C.N. Weyburn	C.P. Weyburn	Total Weyburn
- dollars -						
Right-of-Way Properties						
Railway Property						
Roadway	10,800	29,530	40,330	17,220	29,120	46,340
Other Land	10,250	66,570	76,820	20,280	42,060	62,340
Buildings	8,050	27,150	35,200	1,440	25,380	26,820
Business	2,920	18,640	21,560	3,150	14,790	17,940
Other Property						
Taxable Land	1,160	52,100	53,260	34,380	66,470	100,850
Taxable Buildings	-	102,230	102,230	113,000	156,180	269,180
Taxable Business	-	52,030	52,030	83,200	62,650	145,850
Total Assessment of R.O.W. Properties	33,180	348,250	381,430	272,670	396,650	669,320
Non-Right-of-Way Properties						
Taxable Land	-	-	4,803,620	-	-	3,550,880
Taxable Buildings	-	-	9,290,620	-	-	9,012,210
Taxable Business	-	-	1,733,110	-	-	1,522,770
Total Assessment of Non-Right-of-Way Properties	-	-	15,827,350	-	-	14,085,860
Total Tax Assessment	-	-	16,208,780	-	-	14,755,180
Per Cent of Tax Assessment derived from R.O.W. Properties	-	-	2.4	-	-	4.5

R.O.W. - Right-Of-Way

Source: Department of Municipal Affairs, Regina, Saskatchewan.

Oil and Natural Gas Fields¹

The study area encompasses a substantial number of oil and natural gas fields that have been explored and developed. Figure 1 shows the names and locations of 35 such fields falling within the study area. The largest cluster of fields is located southeast of Weyburn in the area of Midale.

In general oil drilling activity stimulates the local economy of a region in a variety of ways. The demand for commercial and public services is increased. To the extent that access roads are constructed and improved to service oil fields, benefits of better roads also accrue to the rural population. Surplus farm labor might find seasonal or part-time employment which provides an additional source of income. Other possible sources of non-farm income are easements (for damages and rent) and royalties. The latter are paid to the owner of the mineral rights.

Historically, mineral rights were not always treated as separate from surface rights so that the granting of land by the Crown to an individual or a company meant that the land and the minerals under it were disposed of. Initially, land issued to pioneers under the homestead system included surface and mineral rights. The Dominion Crown made large grants to railway companies during the expansion westward. In return for mileage of track laid odd numbered sections were granted to the railway companies. The quality of land was also to be considered in the selection.

About 32 million acres were disposed of in this manner, including both surface and mineral rights, between 1873 and 1894 nearly half of which were situated in Saskatchewan. Since slightly less than one quarter of railway mileage was built within the province, Saskatchewan contributed 17,000 acres of land for every mile of railway built within its borders.

After 1887 on lands west of the third Meridian and after 1890 on lands east of the third Meridian, mineral rights were reserved by the Crown and no longer disposed of along with surface rights. At present ownership of mineral rights in Saskatchewan is approximately divided as follows: Provincial Crown 69.9 per cent, Dominion Crown 1.6 per cent, and "freehold" (i.e. privately owned) 28.5 per cent. In southeast Saskatchewan, the area bounded by the Saskatchewan-Manitoba border and the third Meridian and from the U.S.A. border to township 12, the proportion of freehold mineral rights is substantially higher at 49.5 per cent.

Oil production during 1970 in this area was 52.3 million barrels valued at about \$140.6 million involving some 116 oil companies.

¹Information for this section including the figure was obtained from the Saskatchewan Department of Mineral Resources. In particular see Oil in Saskatchewan, Saskatchewan Department of Mineral Resources, Regina, pp. 46-48.

in the Study Area



Limits of Oil and Natural Gas Fields	L
Community Pastures	///

Scale in Miles

Carload Rail Traffic

The volume of rail traffic to and from a community is another indicator of economic activity, although truck traffic should also be considered to obtain a more complete picture. Generally speaking, the more people and service activities there are in a community the more freight traffic would be generated. Grain shipments at a particular delivery point would depend on such inter-related factors as: size of hinterland, number of permit holders, crop yield and grain marketings in general (exports) and grain marketings from that delivery point in particular.

Table 11 shows the number of carloads shipped in and out of each delivery point in the study area for the years 1960 to 1968. The type of traffic is broken down into one of five broad categories and again communities are listed in the order of rank first established in Table 1.

Delivery points too small to classify had very little traffic. What traffic there was generally declined over time and was virtually all accounted for by outbound grain traffic. In 1968 Hitchcock had the most number of cars; namely, 54 cars outbound. In some delivery points rail traffic has ceased altogether, for instance, where the grain elevator closed (e.g. Buffalo Gap, Caxton).

Volume of traffic was also low and declining in hamlets. Only 5 out of the 16 hamlets had 100 or more carload movements in 1968. The maximum occurred at Outram with 162 cars. Outbound shipments of grain were strongly predominant with a sprinkling of inbound cars carrying products of mines, forests and manufactures.

Outbound grain shipments also predominated rail traffic of villages of which Big Beaver shipped the most in 1968. Total number of cars in and out at Big Beaver and Viceroy was 221 which was second only to Gladmar. Big Beaver was the only village to ship out a substantial number of livestock carloads during the time period shown. (This agrees with Table 3 in which Big Beaver was the only community where livestock loading facilities were observed).

The carload volume at Gladmar calls for some explanation. Nine miles south of Gladmar there is a sodium sulphate mine at Sybouts, East Coteau Lake, the product of which is apparently trucked to Gladmar and then shipped out by rail. This represents the outbound "manufactures and miscellaneous" traffic. The inbound "product of mines" is evidently lignite coal from Bienfait, Saskatchewan which is used as fuel for processing the raw salt and is trucked from Gladmar to the plant at Sybouts.

The outbound products of mines traffic at Viceroy should also be explained. Evidently the 100 or so cars per year carry crude oil from the Roncott oil field to the refineries at Moose Jaw.

The traffic pattern for towns and greater towns remains essentially the same as for hamlets and villages; namely, that outbound grain is the most important, that traffic out greatly exceeds traffic in, and that inbound

traffic is made up of a variety of products like coal, lumber and building supplies, fertilizer, fuel oil, agricultural supplies and machinery. Of course, the traffic volume is higher in towns and greater towns than in smaller centers. In 1968 total movements ranged from 121 (Pangman) to 469 (Radville).

Carload traffic is well over a thousand per year at both Weyburn and Estevan and with a better balance between inbound and outbound; although, Estevan has consistently received more carloads than it sent out. The existence of oil and coal deposits in the area generates a substantial amount of freight traffic associated with these mining activities. Lignite coal from the Taylorton Coalfields is hauled by truck to Boundary Dam, a thermal power plant southwest of Estevan.

TABLE 11. REVENUE CARLOAD RAIL TRAFFIC BY DELIVERY POINT IN THE STUDY AREA, 1960-68

Delivery Point	1960		1961		1962		1963		1964		1965		1966		1967		1968	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
<i>Too Small to Classify</i>																		
Axford					1	19			-	57	-	39	-	42	-	14	-	1
Products of Agriculture					-	-			-	-	-	-	-	-	-	-	-	-
Animals and Products					2	-		n.a.	-	-	-	-	-	-	-	-	-	-
Products of Mines	n.a.		n.a.		-	-			1	-	-	-	-	-	-	-	-	-
Products of Forests					-	-			-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.					-	-			-	-	-	-	-	-	-	-	-	-
Total					3	19			1	57	-	39	-	42	-	14	-	1
Gye																		
Products of Agriculture	-	47	-	51														
Animals and Products	-	-	-	-														
Products of Mines	2	-	1	-		n.a.		T.O.	T.O.		T.O.		T.O.		T.O.		-	-
Products of Forests	-	-	-	-													-	-
Manufactures and Misc.	-	-	-	-													-	-
Total	2	47	1	51			-	28	-	2	-	30	-	18	2	-	-	-
Abbott																		
Products of Agriculture	-	39	-	55											-	10	-	16
Animals and Products	-	-	-	-											-	-	-	-
Products of Mines	-	-	-	-		n.a.		T.O.	T.O.		T.O.		T.O.		-	-	-	-
Products of Forests	-	-	-	-											-	-	-	-
Manufactures and Misc.	-	-	-	-											-	-	-	-
Total	-	39	-	55			-	77	-	58	-	64	-	56	-	10	-	16
Brooking																		
Products of Agriculture	-	65	-	75							-	85	-		-	5	-	7
Animals and Products	-	-	-	-							-	-	-		-	-	-	-
Products of Mines	-	-	-	-		n.a.		T.O.	T.O.		-	-	T.O.		-	-	-	-
Products of Forests	-	-	-	-							-	-	-		-	-	-	-
Manufactures and Misc.	-	-	-	-							-	-	-		-	-	-	-
Total	-	65	-	75			-	91	-	47	-	85	-	58	-	5	-	7

(continued)

See footnotes at end of table

TABLE 11. REVENUE CARLOAD RAIL TRAFFIC BY DELIVERY POINT IN THE STUDY AREA, 1960-68 (continued)

Delivery Point	1960		1961		1962		1963		1964		1965		1966		1967		1968	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Blewett																		
Products of Agriculture	-	17	-	27	-	-	-	-	-	-	-	44	-	-	-	23	-	11
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	-	-	1	-	n.a.	-	T.O.	-	T.O.	-	-	-	T.O.	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	17	1	27	-	-	1	49	1	31	-	44	-	23	-	23	-	11
Blooming																		
Products of Agriculture	-	-	-	-	-	20	-	-	-	20	-	11	-	14	-	3	-	-
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	n.a.	n.a.	n.a.	-	-	-	n.a.	-	-	-	-	-	-	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	20	-	-	-	20	-	11	-	14	-	3	-	-
Caxton																		
Products of Agriculture	-	23	-	35	-	24	-	47	-	39	-	-	-	-	-	-	-	-
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	1	23	-	35	-	24	-	47	-	39	-	-	-	-	-	-	-	-
Buffalo Gap																		
Products of Agriculture	-	-	-	14	-	37	-	30	-	48	-	54	-	-	-	-	-	-
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	14	-	37	-	30	-	48	-	54	-	-	-	-	-	-

See footnotes at end of table

(continued)

TABLE 11. REVENUE CARLOAD RAIL TRAFFIC BY DELIVERY POINT IN THE STUDY AREA, 1960-68 (continued)

Delivery Point	1960		1961		1962		1963		1964		1965		1966		1967		1968	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Clearfield																		
Products of Agriculture	-	41	-	41	-	-	-	-	-	-	-	64	-	-	-	10	-	16
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	1	-	-	-	n.a.	-	T.O.	T.O.	-	-	-	-	T.O.	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	1	41	-	41	-	-	77	-	58	-	-	64	-	56	-	10	-	16
Innes																		
Products of Agriculture	-	-	-	-	-	-	-	-	-	-	-	68	-	-	-	-	-	29
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	n.a.	-	n.a.	-	n.a.	-	T.O.	T.O.	-	-	2	-	T.O.	-	T.O.	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	1	29	1	29	-	2	60	3	60	2	2	68	-	64	-	57	-	29
Ritchie																		
Products of Agriculture	-	29	-	29	-	-	-	-	-	-	-	48	-	-	-	19	-	12
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	1	-	1	-	n.a.	-	T.O.	T.O.	-	-	1	-	T.O.	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	1	29	1	29	-	-	52	-	40	1	1	48	-	49	-	19	-	12
Roncott																		
Products of Agriculture	-	50	-	48	-	-	-	-	-	-	-	113	-	-	-	71	-	47
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	3	-	3	-	n.a.	-	T.O.	T.O.	-	-	-	-	T.O.	-	1	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	3	50	3	48	-	-	112	2	75	-	-	113	1	124	1	71	-	47

See footnotes at end of table

(continued)

TABLE 11. REVENUE CARLOAD RAIL TRAFFIC BY DELIVERY POINT IN THE STUDY AREA, 1960-68 (continued)

Delivery Point	1960		1961		1962		1963		1964		1965		1966		1967		1968	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Bryant																		
Products of Agriculture	-	24	-	60	-	-	-	-	-	-	-	85	-	-	-	58	-	38
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	-	-	-	-	n.a.	-	T.O.	-	T.O.	-	-	-	T.O.	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	24	-	60	-	-	99	-	64	-	-	85	-	75	1	58	-	38
Union Jack																		
Products of Agriculture	-	38	-	51	-	-	-	-	-	-	-	63	-	-	-	50	-	24
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	-	-	-	-	n.a.	-	T.O.	-	T.O.	-	-	-	T.O.	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	38	-	51	-	-	60	-	69	-	-	63	-	62	-	50	-	25
Hoffer																		
Products of Agriculture	-	-	-	42	-	-	-	-	-	80	-	80	-	101	-	54	-	41
Animals and Products	-	-	-	1	-	-	-	-	-	-	-	-	-	2	-	-	-	-
Products of Mines	n.a.	n.a.	n.a.	-	2	-	n.a.	-	1	-	-	-	-	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	43	2	2	-	-	1	80	-	80	-	2	101	-	54	41
Viewfield																		
Products of Agriculture	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53	-	45
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	n.a.	n.a.	n.a.	n.a.	-	-	T.O.	-	T.O.	-	-	-	T.O.	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	94	-	62	-	-	81	-	101	-	53	-	45

See footnotes at end of table

(continued)

TABLE 11. REVENUE CARLOAD RAIL TRAFFIC BY DELIVERY POINT IN THE STUDY AREA, 1960-68 (continued)

Delivery Point	1960		1961		1962		1963		1964		1965		1966		1967		1968	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Cullen																		
Products of Agriculture	-	38	-	56	-	-	-	-	-	-	-	82	-	-	-	60	-	31
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	2	-	2	-	n.a.	-	T.O.	-	T.O.	-	-	-	T.O.	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	2	38	2	56	-	-	1	94	1	67	-	82	-	97	-	60	-	31
Hume																		
Products of Agriculture	3	36	-	41	-	25	-	64	-	53	-	60	-	77	-	38	-	23
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	6	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	9	36	3	41	-	25	-	64	-	53	-	60	-	77	-	38	-	23
Hitchcock																		
Products of Agriculture	-	-	-	-	-	62	-	-	-	120	-	142	-	148	-	75	-	54
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	n.a.	-	n.a.	-	-	-	n.a.	-	-	-	-	-	-	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	62	-	-	-	120	-	142	-	148	-	75	-	54
Hamlets																		
Grassdale	-	59	-	78	-	-	-	-	-	-	-	88	-	-	-	86	-	38
Products of Agriculture	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Animals and Products	-	-	-	-	n.a.	-	-	-	-	-	-	-	T.O.	-	-	-	-	-
Products of Mines	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	59	-	78	-	-	-	-	-	88	-	88	-	102	-	86	-	38

See footnotes at end of table (continued)

TABLE 11. REVENUE CARLOAD RAIL TRAFFIC BY DELIVERY POINT IN THE STUDY AREA, 1960-68 (continued)

Delivery Point	1960		1961		1962		1963		1964		1965		1966		1967		1968	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Talimage																		
Products of Agriculture											-	240					-	97
Animals and Products											-	-					-	-
Products of Mines	n.a.		n.a.		n.a.		T.O.		T.O.		4	-	T.O.		T.O.		2	-
Products of Forests							T.O.				-	-					-	-
Manufactures and Misc.											1	-					-	1
Total							6	209	8	217	5	240	6	243	3	177	2	98
Huntoon																		
Products of Agriculture											-	126					-	61
Animals and Products											-	-					-	-
Products of Mines	n.a.		n.a.		n.a.		T.O.		T.O.		3	-	T.O.		T.O.		-	-
Products of Forests							T.O.				-	-					-	-
Manufactures and Misc.											1	-					-	-
Total							7	135	5	115	4	126	1	140	1	107	-	61
Ralph																		
Products of Agriculture											-	84	-	82	-	57	-	25
Animals and Products						53	-	89	-	3	-	7	-	12	-	15	-	5
Products of Mines	n.a.		n.a.		10	-		5	-	5	5	-	4	-	3	-	5	-
Products of Forests					-	-	n.a.	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.					-	1		-	-	-	-	-	-	1	-	-	1	-
Total					10	54		5	92	5	91	4	95	4	72	6	30	
East Poplar																		
Products of Agriculture	-	44	-	74	-	83	-	165	-	152	-	151	-	194	-	131	-	117
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	2	-	9	-	10	-	6	-	2	-	2	-	-	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Total	2	44	9	74	10	83	8	165	2	152	2	151	-	194	-	131	-	118

See footnotes at end of table

(continued)

TABLE 11. REVENUE CARLOAD RAIL TRAFFIC BY DELIVERY POINT IN THE STUDY AREA, 1960-68 (continued)

Delivery Point	1960		1961		1962		1963		1964		1965		1966		1967		1968	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Hart																		
Products of Agriculture	2	45	-	78	2	80	-	124	-	142	-	125	-	169	-	102	-	77
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	-	-	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	-	1	-	-	1	1	2	-	-	-	-	-	-	-
Total	2	45	2	78	4	81	-	124	2	143	2	125	-	169	-	102	-	77
Ratcliffe																		
Products of Agriculture	-	-	-	-	-	68	-	-	-	129	-	138	-	142	-	89	-	58
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	n.a.	n.a.	n.a.	-	7	-	n.a.	-	2	-	2	-	2	-	1	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	-	-	-	-	8	-	-	-	-	-	1	-	-	-
Total	-	-	-	-	7	68	-	10	129	2	138	2	142	2	89	-	-	58
Glasnevin																		
Products of Agriculture	-	-	-	-	-	100	-	-	-	184	-	141	-	187	-	69	-	72
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	n.a.	n.a.	n.a.	-	7	-	n.a.	-	5	-	5	-	4	-	3	-	3	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1
Total	-	-	-	-	7	100	-	5	184	6	141	4	187	3	69	3	3	73
Hartree																		
Products of Agriculture	-	60	-	63	-	-	-	-	-	-	-	167	-	-	-	131	-	60
Animals and Products	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	7	-	5	-	n.a.	-	T.O.	-	T.O.	-	1	-	T.O.	-	1	-	3	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Total	9	62	5	63	-	-	-	144	2	146	1	167	2	173	3	131	4	61

See footnotes at end of table (continued)

TABLE 11. REVENUE CARLOAD RAIL TRAFFIC BY DELIVERY POINT IN THE STUDY AREA, 1960-68 (continued)

Delivery Point	1960		1961		1962		1963		1964		1965		1966		1967		1968	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Horizon																		
Products of Agriculture					-	154			1	254	-	184	1	304	-	103	-	100
Animals and Products					-	-			-	-	-	-	-	-	-	-	-	-
Products of Mines	n.a.		n.a.		7	-		n.a.	1	-	1	-	-	-	-	-	-	-
Products of Forests					-	-			-	-	1	-	-	-	-	-	-	-
Manufactures and Misc.					-	-			-	-	1	1	-	1	-	-	1	-
Total					7	154			2	254	3	185	1	305	-	103	1	100
Outram																		
Products of Agriculture					-	152			-	269	-	300	-	327	-	271	-	161
Animals and Products					-	-			-	-	-	-	-	-	-	-	-	-
Products of Mines	n.a.		n.a.		13	-		n.a.	8	-	4	-	3	-	1	-	-	-
Products of Forests					-	-			-	-	-	-	8	-	-	-	-	-
Manufactures and Misc.					-	-			-	-	-	-	5	3	3	-	1	-
Total					13	152			8	269	4	300	16	330	4	271	1	161
Woodley																		
Products of Agriculture											-	109						
Animals and Products											-	-						
Products of Mines	n.a.		n.a.		n.a.				T.O.		-	-	T.O.		T.O.		T.O.	
Products of Forests											-	-						
Manufactures and Misc.											-	-						
Total											-	109	-	117	1	85	-	43
Constance																		
Products of Agriculture	-	80	-	104	-	74	-	205	-	211	-	153	-	203	-	109	-	109
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	2	-	2	-	2	-	-	-	1	-	2	-	1	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	-	-	-
Total	2	80	2	104	2	74	-	205	1	211	2	153	2	204	1	109	-	109

See footnotes at end of table

(continued)

TABLE 11. REVENUE CARLOAD RAIL TRAFFIC BY DELIVERY POINT IN THE STUDY AREA, 1960-68 (continued)

Delivery Point	1960		1961		1962		1963		1964		1965		1966		1967		1968	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Hardy																		
Products of Agriculture	-	100	-	113	-	-	-	-	-	-	-	191	-	-	-	100	-	67
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	11	-	10	-	n.a.	-	T.O.	-	-	-	4	-	T.O.	-	3	-	2	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2
Total	11	100	10	113	-	-	10	208	7	156	4	191	3	200	3	100	3	69
Amulet																		
Products of Agriculture	-	-	-	-	-	63	-	132	-	114	-	114	-	114	-	53	-	42
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	n.a.	-	n.a.	-	8	-	n.a.	5	-	6	-	-	5	-	4	-	1	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Manufactures and Misc.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	8	63	-	5	132	6	114	-	5	114	4	53	1	43
Heward																		
Products of Agriculture	-	-	-	-	-	111	-	209	-	191	-	191	-	194	-	124	-	84
Animals and Products	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	n.a.	-	n.a.	-	13	-	n.a.	5	-	3	-	-	2	-	1	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	-	1	-	-	-	-	-	-	6	2	1	-	1	-
Total	-	-	-	-	13	113	-	5	209	3	191	-	8	196	2	124	1	84
Villages																		
Froude																		
Products of Agriculture	-	73	2	98	-	64	-	109	-	101	-	95	-	-	-	67	-	48
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	5	-	6	-	3	-	4	-	1	-	1	-	T.O.	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
Manufactures and Misc.	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Total	5	73	8	98	3	64	4	110	1	101	1	95	1	113	1	67	-	49

See footnotes at end of table (continued)

TABLE 11. REVENUE CARLOAD RAIL TRAFFIC BY DELIVERY POINT IN THE STUDY AREA, 1960-68 (continued)

Delivery Point	1960		1961		1962		1963		1964		1965		1966		1967		1968	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Beaubier																		
Products of Agriculture					-	46			-	83	-	68	-	62	-	55	-	37
Animals and Products					-	-			-	-	-	-	-	-	-	-	-	-
Products of Mines	n.a.		n.a.		7	-	n.a.		2	-	-	-	-	-	-	-	-	-
Products of Forests					1	-			-	-	-	-	-	-	1	-	-	-
Manufactures and Misc.					-	-			1	-	-	-	1	-	-	-	-	-
Total					8	46			3	83	-	68	1	62	1	55	-	37
Khedive																		
Products of Agriculture					-	118			-	230	-	208	-	202	1	109	-	110
Animals and Products					-	-			-	1	-	-	-	-	-	-	-	1
Products of Mines	n.a.		n.a.		14	-	n.a.		8	-	8	-	6	-	5	-	2	-
Products of Forests					-	-			-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.					-	-			-	-	-	-	1	-	-	-	-	-
Total					14	118			8	231	8	208	7	202	6	109	2	111
Verwood																		
Products of Agriculture					-	122			-	246	-	194	-	258	-	123	-	90
Animals and Products					-	-			-	-	-	-	-	-	-	-	-	-
Products of Mines	n.a.		n.a.		5	-	n.a.		4	-	1	-	1	-	1	-	1	-
Products of Forests					-	-			-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.					1	-			-	-	-	-	-	-	-	-	1	-
Total					6	122			4	246	1	194	1	258	1	123	2	90
Scout Lake																		
Products of Agriculture	-	73	-	126	1	108	-	137	-	195	-	183	6	206	-	158	-	93
Animals and Products	-	3	-	1	-	1	-	-	-	10	2	1	-	8	-	9	-	-
Products of Mines	4	-	5	-	3	-	3	-	2	-	-	-	1	-	-	-	-	-
Products of Forests	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	2	-	4	-	1	-	-	-	14	-	2	-	9	-	5	1
Total	4	76	8	127	8	109	4	137	2	205	16	184	9	214	9	167	5	94

See footnotes at end of table

(continued)

TABLE 11. REVENUE CARLOAD RAIL TRAFFIC BY DELIVERY POINT IN THE STUDY AREA, 1960-68 (continued)

Delivery Point	1960		1961		1962		1963		1964		1965		1966		1967		1968	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Trossachs																		
Products of Agriculture					-	91			-	176	-	151	-	137	-	91	-	83
Animals and Products					-	-			-	-	-	-	-	-	-	-	-	-
Products of Mines	n.a.		n.a.		17	-	n.a.		5	-	2	-	-	-	-	-	-	-
Products of Forests					-	-			-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.					-	3			-	-	-	-	-	-	1	-	2	2
Total					17	94			5	176	2	151	-	137	1	91	-	85
Gladmar																		
Products of Agriculture					-	141			-	224	-	191	-	209	-	133	-	75
Animals and Products					-	-			-	-	-	-	-	-	-	-	-	-
Products of Mines	n.a.		n.a.		229	-	n.a.		210	3	264	-	309	1	383	-	485	-
Products of Forests					-	-			1	-	-	-	1	-	1	-	-	-
Manufactures and Misc.					41	320			55	276	52	313	57	310	98	343	29	558
Total					270	461			266	503	316	504	367	520	482	476	514	633
Benson																		
Products of Agriculture											-	280					-	113
Animals and Products											1	-					-	-
Products of Mines											7	-	T.O.		T.O.		-	-
Products of Forests	n.a.		n.a.		n.a.						-	-					-	-
Manufactures and Misc.											-	-					-	-
Total											8	280	5	319	2	200	-	113
Griffin																		
Products of Agriculture											-	203						
Animals and Products											-	-						
Products of Mines	n.a.		n.a.		n.a.						-	-	T.O.		T.O.		T.O.	
Products of Forests											-	-						
Manufactures and Misc.											-	-						
Total											-	203	-	268	-	173	-	73

See footnotes at end of table

(continued)

TABLE 11. REVENUE CARLOAD RAIL TRAFFIC BY DELIVERY POINT IN THE STUDY AREA, 1960-68 (continued)

Delivery Point	1960		1961		1962		1963		1964		1965		1966		1967		1968	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Forget																		
Products of Agriculture					-	98			-	209	-	191	-	194	-	124	-	34
Animals and Products					-	-			-	-	-	-	-	-	-	-	-	-
Products of Mines	n.a.		n.a.		18	-		n.a.	5	-	3	-	2	-	1	-	-	-
Products of Forests					-	-			-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.					-	1			-	-	-	-	6	2	1	-	1	-
Total					18	99			5	209	3	191	8	196	2	124	1	84
Halbrite																		
Products of Agriculture					1	80			-	148	-	167	-	178	1	126	-	54
Animals and Products					-	-			-	-	-	-	-	-	-	-	-	-
Products of Mines	n.a.		n.a.		34	-		n.a.	16	-	15	-	6	-	4	-	4	-
Products of Forests					1	-			-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.					-	1			-	2	-	-	-	2	3	-	1	5
Total					36	81			16	150	15	167	6	180	8	126	5	59
Bromhead																		
Products of Agriculture					-	193			-	295	-	333	-	388	1	250	-	168
Animals and Products					-	-			-	-	-	-	-	-	-	-	-	-
Products of Mines	n.a.		n.a.		23	-		n.a.	11	-	14	-	9	-	8	-	4	-
Products of Forests					-	-			-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.					1	-			15	-	10	-	13	1	9	-	5	-
Total					24	193			26	295	24	333	22	389	18	250	9	168
Goodwater																		
Products of Agriculture	-	80	-	128							-	156			-	112	-	55
Animals and Products	-	-	-	-							-	-			-	-	-	-
Products of Mines	9	-	8	-		n.a.		T.O.			3	-	T.O.		-	-	-	-
Products of Forests	-	-	-	-							-	-			-	-	-	-
Manufactures and Misc.	4	-	-	-							-	-			-	-	-	-
Total	13	80	8	128			8	149	3	168	3	156	1	194	1	112	-	55

See footnotes at end of table

(continued)

TABLE 11. REVENUE CARLOAD RAIL TRAFFIC BY DELIVERY POINT IN THE STUDY AREA, 1960-68 (continued)

Delivery Point	1960		1961		1962		1963		1964		1965		1966		1967		1968	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Fife Lake																		
Products of Agriculture	-	109	1	215	-	131	-	300	-	266	-	257	-	370	-	217	1	135
Animals and Products	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	3
Products of Mines	3	-	3	-	3	-	4	-	-	-	1	-	1	-	1	-	1	-
Products of Forests	-	-	-	-	1	-	-	-	11	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	37	-	30	-	31	-	39	-	37	-	37	1	40	2	30	-	30	-
Total	40	109	34	215	35	131	43	301	48	266	38	258	41	372	31	217	32	138
Oungre																		
Products of Agriculture	-	-	-	-	-	73	-	-	-	123	-	126	-	129	-	79	-	62
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	n.a.	-	n.a.	10	-	-	n.a.	-	7	-	7	-	3	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
Total	-	-	10	74	10	74	-	-	7	123	7	126	4	129	-	79	-	62
Colgate																		
Products of Agriculture	-	90	-	139	-	-	-	-	-	-	-	302	-	-	-	205	-	91
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	11	-	12	-	n.a.	-	T.O.	-	T.O.	-	1	-	T.O.	-	1	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Total	11	90	12	139	-	-	8	290	4	266	1	302	1	281	1	205	-	92
Tribune																		
Products of Agriculture	-	-	-	-	-	193	-	-	-	295	-	333	-	388	1	250	-	168
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	n.a.	-	n.a.	23	-	-	n.a.	-	11	-	14	-	9	-	3	-	4	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	-	-	-	-	15	-	10	-	13	1	9	-	5	-
Total	-	-	24	193	24	193	-	-	26	295	24	333	22	389	18	250	9	168

See footnotes at end of table

(continued)

TABLE 11. REVENUE CARLOAD RAIL TRAFFIC BY DELIVERY POINT IN THE STUDY AREA, 1960-68 (continued)

Delivery Point	1960		1961		1962		1963		1964		1965		1966		1967		1968	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Viceroy																		
Products of Agriculture					-	161			-	301	-	223	2	305	-	196	-	130
Animals and Products					-	-			-	-		-	-	-	-	-	-	-
Products of Mines	n.a.		n.a.		19	114	n.a.		7	108	7	70	5	97	4	91	3	79
Products of Forests					-	-			-	-	-	-	-	-	2	-	-	-
Manufactures and Misc.					-	1			1	1	1	4	2	1	4	-	4	5
Total					19	276			8	410	8	297	9	403	10	287	7	214
Macoun																		
Products of Agriculture					-	149			-	284	-	315	-	337	1	216	-	127
Animals and Products					-	-			-	-		-	-	-	-	-	-	-
Products of Mines	n.a.		n.a.		42	-	n.a.		28	-	21	-	12	-	6	-	-	-
Products of Forests					3	-			-	-	1	-	1	-	-	-	-	-
Manufactures and Misc.					-	-			-	-	1	1	1	-	2	-	-	-
Total					45	149			28	284	23	316	14	337	9	216	-	127
Big Beaver																		
Products of Agriculture	3	96	7	135	2	155	-	274	2	206	1	248	-	275	-	176	2	174
Animals and Products	-	26	-	11	-	11	-	12	4	17	8	25	-	15	-	26	-	39
Products of Mines	27	-	16	-	18	-	13	-	9	-	8	-	7	-	4	-	2	-
Products of Forests	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-
Manufactures and Misc.	2	-	1	-	2	1	3	2	-	-	2	-	4	1	5	-	2	1
Total	32	122	24	146	22	167	17	288	15	223	19	273	11	291	9	202	7	214
Lake Alma																		
Products of Agriculture					-	145			-	231	-	184	-	216	-	166	-	84
Animals and Products					-	9			-	-	-	-	-	11	-	-	-	2
Products of Mines	n.a.		n.a.		28	-	n.a.		20	-	25	-	20	-	15	-	11	-
Products of Forests					1	-			4	-	-	-	4	-	2	-	1	-
Manufactures and Misc.					2	-			14	-	-	-	3	-	1	-	-	-
Total					31	154			38	231	25	184	27	227	18	166	12	86

See footnotes at end of table

(continued)

TABLE 11. REVENUE CARLOAD RAIL TRAFFIC BY DELIVERY POINT IN THE STUDY AREA, 1960-68 (continued)

Delivery Point	1960		1961		1962		1963		1964		1965		1966		1967		1968	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Minton																		
Products of Agriculture	-	34	-	152	-	105	-	314	-	260	-	228	-	282	-	182	-	78
Animals and Products	-	-	-	7	-	6	-	7	-	13	-	10	-	10	-	1	-	-
Products of Mines	27	-	35	-	33	-	18	-	16	-	11	-	6	-	2	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Manufactures and Misc.	3	-	2	-	1	-	1	3	7	-	2	-	5	2	2	-	-	3
Total	30	34	37	159	34	111	19	324	23	273	13	238	11	294	4	183	-	83
Creelman																		
Products of Agriculture	-	-	-	-	-	98	-	-	-	171	-	188	-	207	1	117	-	92
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	n.a.	-	n.a.	-	18	-	n.a.	-	12	-	12	-	7	-	7	-	5	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Manufactures and Misc.	-	-	-	-	-	1	-	-	-	-	-	1	-	3	3	-	-	2
Total	-	-	18	99	18	99	-	12	171	12	189	7	210	11	117	7	95	95
Towns																		
Pangman																		
Products of Agriculture	-	-	-	117	-	-	-	-	-	248	-	274	-	250	-	146	-	111
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	n.a.	-	n.a.	-	16	-	n.a.	-	11	-	9	-	7	-	6	-	5	-
Products of Forests	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	1	-
Manufactures and Misc.	-	-	-	-	18	-	-	14	-	-	3	1	5	1	3	-	2	2
Total	34	117	34	117	34	117	26	248	26	248	12	275	12	251	10	146	8	113
Ceylon																		
Products of Agriculture	1	256	-	113	-	-	-	-	-	-	-	396	-	-	3	276	-	195
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	39
Products of Mines	40	-	30	-	n.a.	-	T.O.	-	T.O.	-	20	-	T.O.	-	13	-	6	-
Products of Forests	2	-	2	-	-	-	-	-	-	-	2	-	-	-	2	-	3	-
Manufactures and Misc.	1	-	4	16	-	-	-	-	-	-	6	-	-	-	7	1	5	-
Total	44	256	36	129	-	-	28	400	27	405	28	398	26	408	25	277	14	234

(continued)

See footnotes at end of table

TABLE 11. REVENUE CARLOAD RAIL TRAFFIC BY DELIVERY POINT IN THE STUDY AREA, 1960-68 (continued)

Delivery Point	1960		1961		1962		1963		1964		1965		1966		1967		1968	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Torquay																		
Products of Agriculture					-	355			-	532	-	504	-	583	-	393	-	254
Animals and Products					-	-			-	-	-	-	-	-	-	-	-	-
Products of Mines	n.a.		n.a.		48	-	n.a.		27	-	26	-	16	-	8	-	12	-
Products of Forests					1	-			6	-	14	-	13	-	3	-	-	-
Manufactures and Misc.					2	-			14	1	18	1	16	-	15	-	4	-
Total					51	355			47	533	58	505	45	583	26	393	16	254
Willow Bunch																		
Products of Agriculture	2	166	11	203							1	435			1	345	-	155
Animals and Products	-	-	-	1							-	-			-	-	-	-
Products of Mines	71	-	56	-	n.a.		T.O.		T.O.		34	-	T.O.		11	-	8	-
Products of Forests	3	-	2	-							2	-			-	-	3	-
Manufactures and Misc.	8	-	4	-							32	-			22	-	5	3
Total	84	166	73	204			72	324	72	425	69	435	50	462	34	345	16	158
Coronach																		
Products of Agriculture	5	92	30	217	1	130	-	328	1	285	-	292	-	343	-	262	-	211
Animals and Products	-	5	-	5	-	3	-	3	-	5	-	8	-	4	-	8	-	5
Products of Mines	22	-	21	-	32	-	18	-	17	-	16	-	9	-	8	-	6	-
Products of Forests	-	-	4	-	3	-	12	-	8	-	8	-	4	-	10	-	4	-
Manufactures and Misc.	63	1	53	-	57	3	64	-	62	1	78	-	103	2	83	1	66	2
Total	90	98	108	222	93	136	94	331	88	291	102	300	116	349	101	271	76	218
Midale																		
Products of Agriculture					1	158			-	411	-	393	-	432	-	283	-	154
Animals and Products					-	-			-	-	-	-	-	1	-	-	-	-
Products of Mines	n.a.		n.a.		36	-	n.a.		11	-	11	-	6	-	-	-	-	-
Products of Forests					8	-			7	-	11	-	6	-	4	-	2	-
Manufactures and Misc.					78	4			72	-	58	-	59	-	46	7	35	-
Total					123	162			90	411	80	393	71	433	50	290	37	154

See footnotes at end of table

(continued)

TABLE 11. REVENUE CARLOAD RAIL TRAFFIC BY DELIVERY POINT IN THE STUDY AREA, 1960-68 (continued)

Delivery Point	1960		1961		1962		1963		1964		1965		1966		1967		1968	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Ogema																		
Products of Agriculture					-	168			-	273			-	278	1	102	-	124
Animals and Products					-	3			-	4			-	12	-	2	-	1
Products of Mines	n.a.		n.a.		64	-	n.a.		38	-	39	-	28	-	20	-	17	-
Products of Forests					3	-			8	1	9	-	6	-	7	-	5	-
Manufactures and Misc.					45	-			46	-	19	-	19	3	18	-	6	1
Total					112	171			92	278	67	251	53	293	46	104	28	126
Greater Towns																		
Lampman																		
Products of Agriculture											-	453					-	214
Animals and Products											-	-					-	21
Products of Mines	n.a.		n.a.		n.a.		T.O.		T.O.		10	-	T.O.		T.O.		-	-
Products of Forests											-	-					9	-
Manufactures and Misc.											95	2	74	548	84	342	76	3
Total							117	508	115	445	105	455					85	238
Bengough																		
Products of Agriculture	-	184	1	206							1	359			3	247	2	251
Animals and Products	-	30	-	37							-	12			-	10	-	10
Products of Mines	59	-	53	-	n.a.		T.O.		T.O.		44	-	T.O.		21	-	21	-
Products of Forests	7	-	10	-							-	-			4	-	7	-
Manufactures and Misc.	13	-	17	2							12	1			17	-	20	3
Total	79	214	81	245			70	472	68	358	57	372	63	493	45	257	50	264
Stoughton																		
Products of Agriculture					8	208			-	313	2	298	1	515	3	250	-	174
Animals and Products					-	1			-	2	-	1	-	-	-	-	-	-
Products of Mines	n.a.		n.a.		32	-	n.a.		20	-	20	-	15	-	9	-	3	-
Products of Forests					7	-			28	-	9	-	9	-	8	-	3	-
Manufactures and Misc.					90	-			109	-	84	-	85	-	23	1	4	-
Total					137	209			157	315	115	299	110	515	43	251	10	174

See footnotes at end of table

(continued)

TABLE 11. REVENUE CARLOAD RAIL TRAFFIC BY DELIVERY POINT IN THE STUDY AREA, 1960-68 (continued)

Delivery Point	1960		1961		1962		1963		1964		1965		1966		1967		1968	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Radville																		
Products of Agriculture	1	323	-	668							2	876			-	575	1	386
Animals and Products	-	3	-	1	n.a.		T.O.		T.O.		-	-	T.O.		-	-	-	3
Products of Mines	78	-	67	-							37	-			9	-	5	-
Products of Forests	5	-	8	-							-	-			9	-	4	-
Manufactures and Misc.	80	-	74	-							108	-			73	-	69	1
Total	164	326	149	669			120	849	121	740	147	876	97	809	91	575	79	390
Estevan																		
Products of Agriculture					47	267			30	539	37	509	43	609	46	279	44	211
Animals and Products					-	-			-	-	-	1	-	-	-	-	-	-
Products of Mines	n.a.		n.a.		348	1	n.a.		211	-	154	1	301	3	239	3	209	2
Products of Forests					56	-			67	-	89	-	69	-	61	-	40	-
Manufactures and Misc.					667	317			695	188	719	186	594	239	687	259	730	301
Total					1118	585			1003	727	999	697	1007	851	1033	541	1023	514
Weyburn (C.N.)																		
Products of Agriculture											8	151						
Animals and Products											-	1						
Products of Mines	n.a.		n.a.		n.a.		T.O.		T.O.		61	-	T.O.		T.O.		T.O.	
Products of Forests											479	98						
Manufactures and Misc.											548	250	508	328	391	249	343	219
Total											643	269	656	181	508	328	391	249
Weyburn (C.P.)																		
Products of Agriculture					66	476			18	745	20	708	25	779	25	506	26	296
Animals and Products					2	30			-	56	3	41	-	71	-	147	-	181
Products of Mines	n.a.		n.a.		62	1	n.a.		46	-	63	-	66	-	62	-	55	-
Products of Forests					64	-			80	-	86	-	68	-	63	-	34	-
Manufactures and Misc.					471	32			484	33	334	6	349	6	280	19	165	7
Total					665	539			628	834	506	755	508	856	430	672	280	484

See footnotes at end of table

(continued)

TABLE 11. REVENUE CARLOAD RAIL TRAFFIC BY DELIVERY POINT IN THE STUDY AREA, 1960-68 (concluded)

Products of Agriculture -	All grains, seeds, flour, hay and straw, fruits and vegetables, etc.
Animals and Products -	All livestock, poultry, meats, fish, dairy products, etc.
Products of Mines -	Coal, mineral ores and concentrates, cement, brick, asphalt, etc.
Products of Forests -	Logs, lumber, all processed natural wood, plywood, shingles, etc.
Manufactures and Miscellaneous -	Petroleum products, chemicals, fertilizer, machinery and parts, vehicles, furniture, food and feed products, etc.
n.a. -	Not available.
T.O. -	Totals only available.
Source:	Canadian Pacific Railways, Department of Research, Montreal, Quebec. Canadian National Railways, Analytical Services, Winnipeg, Manitoba.

Highway Transportation Services

Truck traffic data similar to railway carload traffic showing volume of traffic to and from each community was not available but most communities are served by one or more trucking companies. The names of for-hire common and contract carriers servicing each center are listed in Table 12. Excluded from this list are, of course, farm trucks as well as private urban and private intercity truckers.

Only two of the communities too small to classify and one-half of the 16 hamlets had trucking service. The villages of Benson, Goodwater, Colgate and Big Beaver were without trucking service. The other centers all had trucking service except Lampman which appears to be an anomaly. It is classified as a greater town, has a population in excess of 800 people and yet is not serviced by any for-hire truckers nor bus express service. Evidently, freight destined for Lampman goes by C.N. rail, or by private truckers, or goes to Estevan by for-hire truck where it is then picked up by Lampman residents.

TABLE 12. TRUCK SERVICES BY COMMUNITY, 1969

Delivery Point	For-hire Carriers
<i>Too Small to Classify</i>	
Hoffer	D. Fiechter Transport
Hume	South Line Freight, Berg's Transport
<i>Hamlets</i>	
Ralph	Soo Security
Hart	Assiniboia Cartage
Ratcliffe	J. Gibbons Transport, D. Fiechter Transport
Glasnevin	J. Gibbons Transport, D. Fiechter Transport
Horizon	J. Gibbons Transport, D. Fiechter Transport
Outram	Kissner Transport
Amulet	J. Gibbons Transport, D. Fiechter Transport
Heward ^a	C.P. Transport, Bogdane Bros. Transport
<i>Villages</i>	
Froude	Berg's Transport, South Line Freight
Beaubier	D. Fiechter Transport
Khedive	D. Fiechter Transport
Verwood	Assiniboia Cartage, Kissner Transport
Scout Lake ^a	Assiniboia Freightways Limited
Trossachs	D. Fiechter Transport
Gladmar	Kissner Transport, D. Fiechter Transport
Griffin	Berg's Transport, South Line Freight
Forget ^a	C.P. Transport, Berg's Transport, South Line Freight

See footnotes at end of table

(continued)

TABLE 12. TRUCK SERVICES BY COMMUNITY, 1969 (continued)

Delivery Point	For-hire Carriers
Halbrite ^a	C.P. Transport
Bromhead	D. Fiechter Transport, Kissner Transport
Fife Lake	Kissner Transport, Assiniboia Transport
Oungre	Kissner Transport, D. Fiechter Transport
Tribune	D. Fiechter Transport
Viceroy	J. Gibbons Transport, D. Fiechter Transport
Macoun ^a	C.P. Transport, Soo Security Motorways
Lake Alma	Kissner Transport, D. Fiechter Transport
Minton	Kissner Transport, D. Fiechter Transport
Creelman ^a	Bogdane Bros. Transport, C.P. Transport
<i>Towns</i>	
Pangman	J. Gibbons Transport, D. Fiechter Transport
Ceylon	Kissner Transport, D. Fiechter Transport
Torquay	Kissner Transport, D. Fiechter Transport
Willow Bunch ^a	D. Fiechter Transport, Kissner Transport, Assiniboia Cartage
Coronach ^a	Kissner Transport, Assiniboia Cartage
Midale ^a	C.P. Transport, Soo Security Motorways
Ogema	J. Gibbons Transport, D. Fiechter Transport
<i>Greater Towns</i>	
Bengough	J. Gibbons Transport, D. Fiechter Transport
Stoughton ^a	Berg's Transport, C.P. Transport, McGregor's Transport, Bogdane Bros. Transport, South Line Freight

See footnotes at end of table

(continued)

TABLE 12. TRUCK SERVICES BY COMMUNITY, 1969 (concluded)

Delivery Point	For-hire Carriers
Radville	C.N. Transport, D. Fiechter Transport
<i>Cities</i>	
Estevan ^a	Soo Security Motorways, C.P. Transport, Quality Trucking Ltd., Barry's Transport, Bert Baxter Transport, LaFrentz & Christenson Trucking Ltd., South Line Freight
Weyburn ^a	Soo Security Motorways, C.N. Transport, C.P. Transport, Hillstead Transport, Berg's Transport, D. Fiechter Transport, J. Gibbons Transport

^aBus express service provided by Saskatchewan Transportation Company

Source: Saskatchewan Shippers' Directory, 1969.

PART II

AGRICULTURAL CHARACTERISTICS

Soil Capability for Agriculture

The study area encompasses in excess of 4.5 million acres.¹ The physical features are oriented in a diagonal pattern from northwest to southeast, the major feature consisting of the Missouri Coteau escarpment which delineates the Second and Third Prairie Steppes. Within the Second Prairie Steppe from Estevan north and west lies the level and gently rolling land of the Souris Plain with an elevation of approximately 1900 feet above sea level. The soils in this part are largely Class 3 which have moderately severe limitations but will still respond productively to good management practices.

The terrain becomes more undulating towards the Missouri Coteau (marked by the course of Long Creek, Khedive to Oungre) and rises sharply to the Third Prairie Steppe with an elevation of 3000 feet southwest of Big Muddy Valley. Soils in this part are less uniform than those on the Souris Plain resulting in various complex degrees of arability. While some of the area has Class 3 soils much of the land falls into Classes 4, 5 and 6. Class 4 soils possess severe limitations and require special conservation practices to produce annual field crops. Classes 5 and 6 are suited only for the production of perennial forage crops.

Surface drainage for the study area is provided by Moose Mountain Creek in the extreme northeast, Moose Jaw and Avonlea Creeks in the north, the Souris River, Long Creek, the Beaver and Poplar Rivers in the southwest, and numerous tributaries, sloughs and lakes throughout the region.

¹For a more detailed description of soil capability in the area see the two Canada Land Inventory maps, Weyburn and Willow Bunch Lake inserted into the envelope inside the back cover.

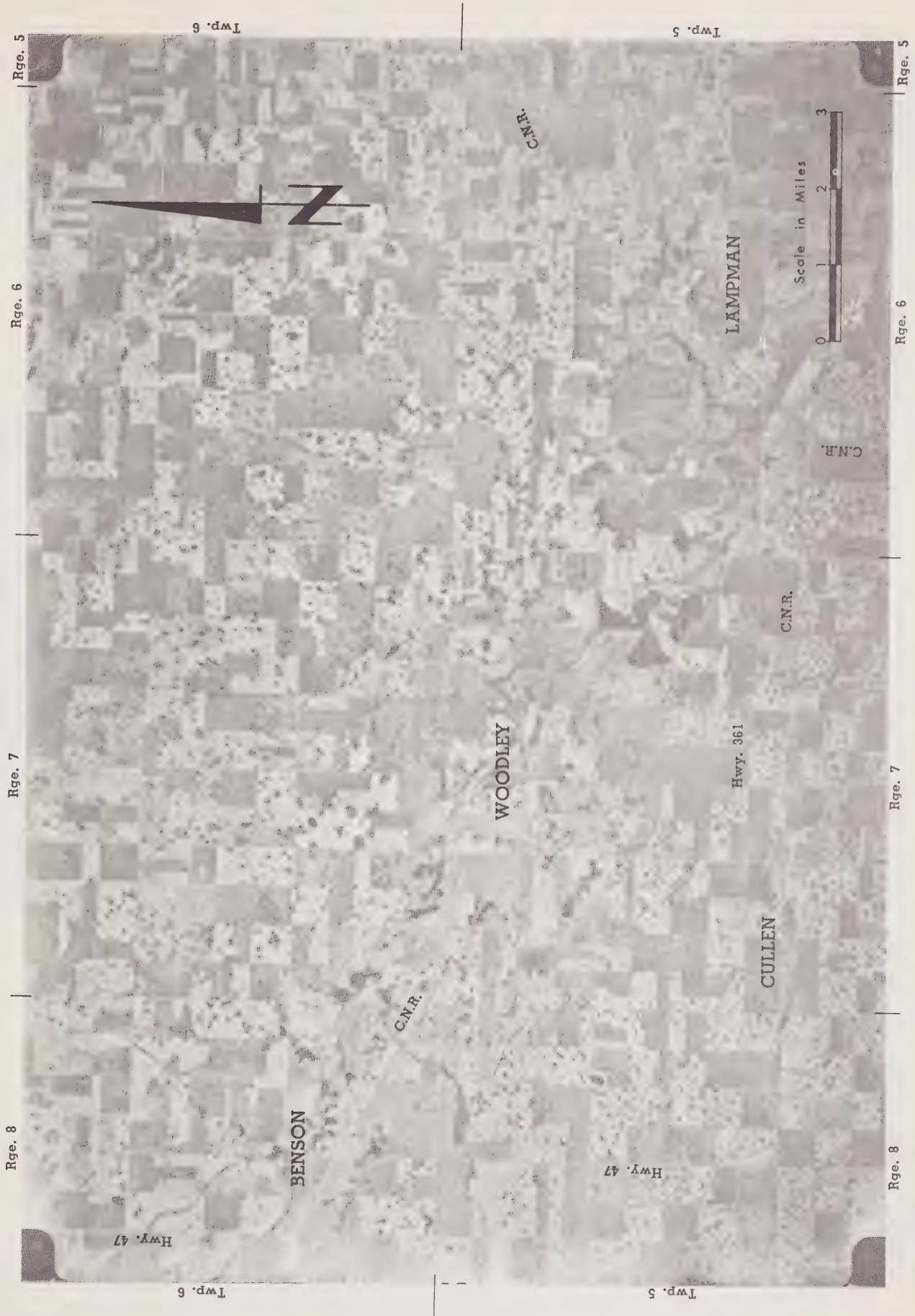
Sample Aerial Photos

Figures 2 and 3 show aerial photos of the Lampman and Coronach areas respectively. These photos were taken in the summer of 1970 for use by the Prairie Farm Assistance Administration in their involvement with Operation LIFT. The purpose of including these photos is simply by way of example to show the kind of aerial photos that are available of the entire Prairie region. Landmarks such as communities, railroads and highways have been identified on the figures.

It is interesting to compare these photos with the soil capability maps referred to earlier and to Saskatchewan soil survey maps.¹ The gently undulating topography at Lampman is broken by shallow, but deeply leached, depressions; occasional "burn-out" pits (eroded phase of solonetz soils); and poorly drained flats and sloughs, including alkali deposits.² The topography around Coronach is somewhat more undulating than at Lampman. It would appear that strip farming methods are practiced to overcome excessive surface drainage and erosion on the slopes. The eroded valley slopes of the Poplar River are clearly visible.

¹Soil Survey of Southern Saskatchewan, Report No. 12, University of Saskatchewan, Saskatoon, June, 1944.

²*Ibid.* pp. 87, 90.



AERIAL VIEW OF LAMPMAN AREA



AERIAL VIEW OF CORONACH AREA

Temperature Norms and Extremes

Temperature norms and extremes within and near the study area are shown in Table 13. Assiniboia is 34 miles northwest of Willow Bunch and Carlyle is 35 miles east of Stoughton.

The July mean daily temperatures range from 65.5°F at Carlyle to 68.4°F at Estevan while January values range from 0.6°F to 5.1°F corresponding to the same two locations. Midale recorded both the highest and lowest temperatures; namely, 113°F in July and -55°F in February.

The climate, therefore, is continental with warm summers and cold winters. Average growing season ranges from 170-185 days of which 90 or more make up the average frost-free period.

TABLE 13. TEMPERATURE NORMS AND EXTREMES FOR SPECIFIED METEOROLOGICAL STATIONS

Meteorological Station	January	February	March	April	May	June	July	August	September	October	November	December	Year
	- degrees Fahrenheit -												
Assiniboia^a													
Mean Daily Maximum ^b				51.2	65.3	71.5	81.0	78.2	66.9	54.7			
Mean Daily Minimum ^b				28.4	39.9	47.7	53.7	50.7	41.4	31.6			
Mean Daily Temperature ^b				39.8	52.6	59.6	67.4	64.5	54.2	43.2			
Maximum Temperature ^c				89	98	102	108	104	99	90			
Minimum Temperature ^c				-12	9	26	34	32	8	0			
Carlyle													
Mean Daily Maximum ^b	9.6	14.7	27.1	48.1	64.1	70.8	79.1	76.4	65.7	53.2	30.3	16.6	46.3
Mean Daily Minimum ^b	-8.5	-5.0	7.1	25.7	37.7	45.9	51.8	49.2	39.2	28.4	12.5	-0.7	23.6
Mean Daily Temperature ^b	0.6	4.9	17.1	36.9	50.9	58.4	65.5	62.8	52.5	40.8	21.4	8.0	35.0
Maximum Temperature ^c	43	56	72	88	99	105	104	102	98	87	68	63	105
Minimum Temperature ^c	-50	-53	-40	-13	11	24	32	24	14	-10	-27	-42	-53
Ceylon													
Mean Daily Maximum ^d	13.2	17.0	28.4	49.4	64.2	71.0	80.1	77.7	66.2	53.6	32.3	22.7	47.9
Mean Daily Minimum ^d	-3.4	-1.0	10.8	27.0	38.4	46.2	51.7	49.5	40.4	29.0	12.9	4.3	25.5
Mean Daily Temperature ^d	4.9	8.7	19.6	38.2	51.3	58.6	65.9	63.6	53.3	41.3	22.6	13.5	36.7
Maximum Temperature ^e	48	49	68	89	95	100	105	102	96	85	67	59	105
Minimum Temperature ^e	-41	-40	-35	-15	9	22	36	28	14	-7	-27	-36	-41
Estevan (airport)													
Mean Daily Maximum ^d	13.9	17.6	29.7	50.5	65.4	71.9	81.1	78.7	66.8	55.2	34.1	22.4	48.9
Mean Daily Minimum ^d	-3.7	-0.2	12.1	29.1	41.4	49.3	55.7	53.5	43.2	32.4	16.7	5.2	27.9
Mean Daily Temperature ^d	5.1	8.7	20.9	39.8	53.4	60.6	68.4	66.1	55.0	43.8	25.4	13.8	38.4
Maximum Temperature ^e	51	55	79	90	97	102	110	106	101	91	71	60	110
Minimum Temperature ^e	-44	-52	-34	-13	14	25	31	26	12	-3	-26	-39	-52
Midale													
Mean Daily Maximum ^b	13.9	18.0	30.0	51.2	66.4	72.9	81.9	79.5	68.5	55.7	33.8	21.6	49.5
Mean Daily Minimum ^b	-6.8	-2.9	10.0	27.3	39.2	47.8	53.3	50.4	40.0	29.3	13.7	1.4	25.2
Mean Daily Temperature ^b	3.6	7.6	20.0	39.3	52.8	60.4	67.6	65.0	54.3	42.5	23.7	11.5	37.4
Maximum Temperature ^c	50	64	77	91	102	103	113	107	100	90	74	63	113
Minimum Temperature ^c	-47	-55	-40	-15	10	26	29	23	12	-9	-27	-47	-55

^aAssiniboia is a summer station only.^bNorms were computed directly from a period of record of 25 to 30 years, within the period 1931-1960. In most cases the record existed over the full 30 years.^cThese temperatures are based on the complete ten years of record from 1951 to 1960. No adjustment factor used.^dData for these norms were from the full ten-year period 1951 to 1960, adjusted to the standard normal period 1931 to 1960.^eThese temperatures were obtained by taking a ten-year period of record ending in the early 1960's. No adjustment factor used.

Source: Canada Department of Transport, Meteorological Branch, Toronto, Ontario.

Precipitation

Table 14 shows monthly and annual precipitation averages in terms of rainfall, snowfall and total at five meteorological stations. Annual average precipitation is around 15-16 inches with 64.9 - 69.1 per cent (Midale and Carlyle) of it occurring in the five-month period May to September. June is the single highest precipitation month. Approximately 75 per cent of annual precipitation is in the form of rain.

Unpublished information regarding annual claims filed and amounts of indemnity paid by rural municipality was obtained from the Saskatchewan Municipal Hail Insurance Association. Over the nine-year period 1962-70 the average number of claims in the 22 R.M.'s in the study area ranged from a low of about 9 claims in Norton to a high of 83 in Weyburn. The lowest number of claims occurred in 1967, when on the average about 19 claims were filed in each R.M.; and the highest number occurred in 1964 when an average of 87 claims were filed in each R.M. The second highest average number of claims, 68, occurred in 1968.

The pattern of claims filed is reflected in the amounts of indemnity paid out during the same time period. Again the R.M. of Norton showed the lowest nine-year average indemnity (\$3,672) and Weyburn the highest (\$58,738). The year 1967, which had the lowest number of claims, had the second lowest amount of indemnity with an average of \$9,685 per R.M. The highest number of claims in 1964 corresponds to the second highest indemnity average of \$45,851 per R.M. The highest average indemnity payment, \$49,029, occurred in 1968.

TABLE 14. MONTHLY AND ANNUAL AVERAGE PRECIPITATION FOR SPECIFIED METEOROLOGICAL STATIONS

Meteorological Station	January	February	March	April	May	June	July	August	September	October	November	December	Year
- inches -													
Assiniboia ^a													
Mean Rainfall ^b				0.57	1.62	3.31	2.23	1.78	1.25	0.32			
Mean Snowfall ^b				3.6	1.2	0.4	0.0	0.0	0.7	3.4			
Mean Total Precipitation ^c				0.93	1.74	3.35	2.23	1.78	1.32	0.66			
Carlyle													
Mean Rainfall ^b	0.01	0.00	0.08	0.57	1.45	3.24	2.54	2.41	1.01	0.43	0.07	0.01	11.82
Mean Snowfall ^b	5.8	5.8	7.0	2.8	0.8	0.0	0.0	0.0	0.4	2.8	6.1	6.2	37.7
Mean Total Precipitation ^c	0.59	0.58	0.78	0.85	1.53	3.24	2.54	2.41	1.05	0.71	0.68	0.63	15.59
Ceylon													
Mean Rainfall ^b	0.02	0.01	0.10	0.63	1.62	3.28	2.24	2.02	1.31	0.52	0.11	0.01	11.87
Mean Snowfall ^b	6.4	5.5	6.4	3.4	0.3	0.0	0.0	0.0	0.6	2.1	4.9	6.2	35.8
Mean Total Precipitation ^c	0.66	0.56	0.74	0.97	1.65	3.28	2.24	2.02	1.37	0.73	0.60	0.63	15.45
Estevan (airport)													
Mean Rainfall ^b	0.01	0.02	0.14	0.45	1.50	3.52	2.25	1.85	1.46	0.58	0.15	0.03	11.96
Mean Snowfall ^b	6.7	6.1	6.2	4.9	1.4	0.0	0.0	0.0	0.3	4.2	7.4	6.8	44.0
Mean Total Precipitation ^c	0.68	0.63	0.76	0.94	1.64	3.52	2.25	1.85	1.49	1.00	0.89	0.71	16.36
Midale													
Mean Rainfall ^b	0.01	0.01	0.09	0.46	1.52	3.17	2.16	2.28	1.05	0.65	0.12	0.01	11.53
Mean Snowfall ^b	7.8	6.8	8.2	3.5	0.6	0.0	0.0	0.0	0.5	2.8	6.6	6.4	43.2
Mean Total Precipitation ^c	0.79	0.69	0.91	0.81	1.58	3.17	2.16	2.28	1.10	0.93	0.78	0.65	15.85

^aAssiniboia is a summer station only.

^bNorms were computed directly from a period of record of 25 to 30 years within the period 1931 to 1960. In most cases, the record existed over the full 30 years.

^cTotal precipitation measured in inches of rain. Ten inches of snow equals one inch of rain.

^dThese averages are based on a period of record of 10 to 24 years during the period 1931 to 1960. No adjustment factor has been used.

Source: Canadian Department of Transport, Meteorological Branch, Toronto, Ontario.

Sales of Farm Land in the Study Area

An indication of farm land transactions in the study area is provided by data in Table 15. In the seven-year period 1963-69, 670 transactions were recorded involving an average of 365 acres per transaction. These transactions are representative in the sense that family and other types of deals involving concessions were excluded from the tabulations.

Prices steadily increased and had more than doubled by 1968, which showed an average of \$70.69 and a high of \$101.04 per acre. Then prices dropped again. The first year in the series, 1963, had the lowest price level of all. Many factors enter into determining farm land values. Superficially, it would appear that at least the following three factors could be cited in explaining the observed price levels: soil classification, general inflation and grain marketing situation. Class 1 or 2 land is generally higher priced relative to Class 3 or 4. General economic inflation is in time reflected in rising land values. Finally, when grain marketings keep pace with production there is an upward pressure on land values but when the supply of grain becomes too large relative to demand, the pressure on land values is downward. The latter situation occurred in about 1968-69.

TABLE 15. REPRESENTATIVE LAND VALUES, BY SALES PRICE PER ACRE, 1963 TO 1969

Year	Number of Transactions	Total Number of Acres	Price per Acre		
			Low	High	Average
			\$	\$	\$
1963	110	41,384	15.50	43.85	30.33
1964	81	30,845	20.31	58.33	41.60
1965	105	42,545	23.06	84.10	52.18
1966	123	49,829	21.71	82.10	59.11
1967	114	35,472	54.46	84.06	67.39
1968	90	31,275	51.74	101.04	70.69
1969	47	13,056	28.13	90.62	66.23

Source: Farm Credit Corporation, Regina.

Disposition of Grain Farm Acreage

The number of acres associated with each delivery point and land use are shown in some detail for two crop years in Tables 16 and 17.

In total, between 1962-63 and 1969-70, farm acreage in the study area increased 86,582 acres or 2.4 per cent. In the meantime, eight delivery points too small to classify closed giving up 95,153 acres to neighboring points. In general, smaller communities experienced decreased acreages while larger communities experienced increases.¹

All except five delivery points too small to classify and all except one hamlet (Talmage) decreased in size. Only seven of the 23 villages decreased. Of the communities classified as towns, greater towns and cities all increased their farm acreages except Bengough, which declined slightly (1.6 per cent).

Very little change occurred in the land use pattern between 1962-63 and 1969-70 in the total study area. Cropping practices follow a three-year rotation with about one-third summerfallow, one-third hard wheat and the remaining third in other crops and unimproved land. None of the crop land proportions changed by more than 2 percentage points. Total unimproved land decreased by 120,278 acres or by 3.7 percentage points of total acres.

Examination of land use at individual delivery points reveals some variations from the overall pattern but hard red spring wheat is strongly predominant in the area with 32.9 per cent in 1969-70. This is followed by durum with only 7.4 per cent and other grains are not significant. Cullen had the highest per cent in wheat, namely, 48.4 per cent. Some delivery points where durum was relatively important are Harptree, Horizon, Outram, Verwood, Viceroy and Torquay.

¹The interested reader may wish to compare this data with that contained in Tables 24 and 35 which show changes in numbers of delivery permits issued and average hinterland size.

TABLE 16. GRAIN FARM ACREAGE DEVOTED TO SPECIFIED USE BY DELIVERY POINT, 1962-63

Delivery Point	Wheat	Durum	Oats	Barley	Rye	Summer Fallow	Forage Crops	Flaxseed	Rapeseed	Other Crops	Unimproved Land	Total
<i>Too Small to Classify</i>												
Axford Acres	2,847	950	210	-	-	2,638	35	-	-	50	1,330	8,060
Per cent of Total	35.4	11.8	2.6	-	-	32.7	0.4	-	-	0.6	16.5	100.0
Gye Acres	4,512	2,637	515	500	175	6,257	305	265	200	55	2,754	18,175
Per cent of Total	24.8	14.5	2.8	2.8	0.9	34.4	1.7	1.5	1.1	0.3	15.2	100.0
Abbott Acres	5,055	1,070	512	137	-	5,879	107	-	-	68	1,572	14,400
Per cent of Total	35.1	7.4	3.6	1.0	-	40.8	0.7	-	-	0.5	10.9	100.0
Brooking Acres	5,882	1,330	647	125	-	7,546	185	92	-	55	1,729	17,591
Per cent of Total	33.4	7.6	3.7	0.7	-	42.9	1.1	0.5	-	0.3	9.8	100.0
Blewett Acres	3,220	465	225	-	-	3,645	40	220	-	-	1,225	9,040
Per cent of Total	35.6	5.2	2.5	-	-	40.3	0.4	2.4	-	-	13.6	100.0
Blooming Acres	990	710	175	-	-	1,190	-	20	-	-	1,235	4,320
Per cent of Total	22.9	16.4	4.1	-	-	27.5	-	0.5	-	-	28.6	100.0
Caxton Acres	3,523	340	546	340	75	3,805	90	135	-	70	1,671	10,595
Per cent of Total	33.2	3.2	5.2	3.2	0.7	35.9	0.8	1.3	-	0.7	15.8	100.0
Buffalo Gap Acres	3,884	350	505	706	-	2,812	182	15	-	41	4,477	12,972
Per cent of Total	29.9	2.7	3.9	5.5	-	21.7	1.4	0.1	-	0.3	34.5	100.0
Clearfield Acres	4,604	245	575	70	-	5,265	85	25	-	27	2,137	13,033
Per cent of Total	35.3	1.9	4.4	0.5	-	40.4	0.7	0.2	-	0.2	16.4	100.0
Innes Acres	3,605	702	1,073	480	135	4,235	415	87	110	-	2,769	13,611
Per cent of Total	26.5	5.2	7.9	3.5	1.0	31.1	3.0	0.6	0.8	-	20.4	100.0
Ritchie Acres	3,718	860	897	50	-	3,521	161	260	-	30	5,315	14,812
Per cent of Total	25.1	5.8	6.1	0.3	-	23.8	1.1	1.7	-	0.2	35.9	100.0
Roncott Acres	7,472	1,767	742	322	50	8,927	423	150	-	-	5,148	25,001
Per cent of Total	29.9	7.0	3.0	1.3	0.2	35.7	1.7	0.6	-	-	20.6	100.0
Bryant Acres	6,857	580	1,065	305	215	6,620	285	80	-	-	2,313	18,320
Per cent of Total	37.4	3.2	5.8	1.7	1.2	36.1	1.6	0.4	-	-	12.6	100.0
Union Jack Acres	5,093	115	880	305	-	5,325	122	-	-	360	1,618	13,818
Per cent of Total	36.9	0.8	6.4	2.2	-	38.5	0.9	-	-	2.6	11.7	100.0

(continued)

TABLE 16. GRAIN FARM ACREAGE DEVOTED TO SPECIFIED USE BY DELIVERY POINT, 1962-63 (continued)

Delivery Point	Wheat	Durum	Oats	Barley	Rye	Summer Fallow	Forage Crops	Flaxseed	Rapeseed	Other Crops	Unimproved Land	Total
Hoffer Acres	5,977 32.4	605 3.3	655 3.5	250 1.4	- -	6,447 34.9	257 1.4	300 1.6	- -	10 0.0	3,972 21.5	18,473 100.0
Viewfield Acres	4,269 29.1	680 4.6	596 4.1	224 1.5	- -	5,146 35.1	157 1.1	120 0.8	- -	38 0.2	3,446 23.5	14,676 100.0
Cullen Acres	6,483 38.6	65 0.4	973 5.8	235 1.4	120 0.7	5,831 34.7	347 2.0	120 0.7	- -	30 0.2	2,596 15.5	16,800 100.0
Hume Acres	5,806 33.7	499 2.9	1,678 9.7	150 0.9	- -	5,213 30.3	160 0.9	50 0.3	- -	95 0.6	3,580 20.7	17,231 100.0
Hitchcock Acres	10,692 36.4	55 0.2	1,406 4.8	695 2.4	275 0.9	9,946 33.9	419 1.4	593 2.0	- -	120 0.4	5,162 17.6	29,363 100.0
<i>Hamlets</i>												
Grassdale Acres	7,081 33.0	1,650 7.7	1,050 4.9	20 0.1	- -	8,305 38.7	80 0.4	60 0.3	- -	- -	3,209 14.9	21,455 100.0
Talmage Acres	14,817 34.7	3,257 7.6	2,644 6.2	1,065 2.5	- -	16,223 38.0	291 0.7	160 0.4	- -	20 0.1	4,173 9.8	42,650 100.0
Huntoon Acres	10,009 32.3	912 3.0	1,770 5.7	462 1.5	100 0.3	10,279 33.2	103 0.3	718 2.3	- -	245 0.8	6,358 20.6	30,956 100.0
Ralph Acres	7,565 32.3	815 3.5	1,232 5.3	850 3.6	- -	8,070 34.4	200 0.9	175 0.7	- -	210 0.9	4,323 18.4	23,440 100.0
East Poplar Acres	15,095 36.7	1,170 2.8	1,396 3.4	1,453 3.5	90 0.2	13,715 33.3	690 1.7	70 0.2	- -	25 0.1	7,473 18.1	41,177 100.0
Hart Acres	10,898 34.9	1,017 3.3	1,518 4.9	1,569 5.0	305 1.0	10,234 32.8	810 2.6	130 0.4	- -	- -	4,701 15.1	31,182 100.0
Ratcliffe Acres	10,566 29.1	1,325 3.7	1,217 3.4	95 0.3	235 0.6	10,712 29.5	210 0.6	40 0.1	- -	80 0.2	11,786 32.5	36,266 100.0
Glasnevin Acres	14,183 34.2	2,735 6.6	1,537 3.7	467 1.1	150 0.4	13,986 33.8	306 0.7	247 0.6	- -	20 0.0	7,811 18.9	41,442 100.0
Hartree Acres	7,817 18.9	5,878 14.2	1,785 4.3	1,908 4.6	157 0.4	14,413 34.8	535 1.3	165 0.4	290 0.7	80 0.2	8,384 20.2	41,412 100.0
Horizon Acres	14,533 28.5	7,217 14.1	1,106 2.2	389 0.8	672 1.3	18,271 35.8	595 1.2	25 0.0	- -	165 0.3	8,060 15.8	51,033 100.0

(continued)

TABLE 16. GRAIN FARM ACREAGE DEVOTED TO SPECIFIED USE BY DELIVERY POINT, 1962-63 (continued)

Delivery Point	Wheat	Durum	Oats	Barley	Rye	Summer Fallow	Forage Crops	Flaxseed	Rapeseed	Other Crops	Unimproved Land	Total
Outram Acres	28,356	5,925	2,892	748	444	30,236	675	157	-	170	14,711	84,314
Per cent of Total	33.6	7.0	3.4	0.9	0.5	35.9	0.8	0.2	-	0.2	17.5	100.0
Woodley Acres	8,232	1,230	2,155	535	250	8,196	237	105	-	5	4,415	25,360
Per cent of Total	32.5	4.9	8.5	2.1	1.0	32.3	0.9	0.4	-	0.0	17.4	100.0
Constance Acres	18,221	2,045	1,579	1,141	620	15,756	566	475	80	40	8,173	48,696
Per cent of Total	37.4	4.2	3.2	2.3	1.3	32.3	1.2	1.0	0.2	0.1	16.8	100.0
Hardy Acres	12,201	3,576	1,692	276	110	13,233	1,112	355	-	126	13,612	46,293
Per cent of Total	26.3	7.7	3.7	0.6	0.2	28.6	2.4	0.8	-	0.3	29.4	100.0
Amulet Acres	8,782	1,820	991	178	155	9,679	1,201	20	-	15	6,679	29,520
Per cent of Total	29.7	6.2	3.3	0.6	0.5	32.8	4.1	0.1	-	0.1	22.6	100.0
Heward Acres	12,492	495	1,140	1,199	530	12,931	455	1,016	-	20	5,261	35,539
Per cent of Total	35.1	1.4	3.2	3.4	1.5	36.4	1.3	2.9	-	0.0	14.8	100.0
Villages												
Froude Acres	6,994	1,333	1,277	545	500	9,530	378	465	-	250	4,648	25,920
Per cent of Total	27.0	5.1	4.9	2.1	1.9	36.8	1.5	1.8	-	1.0	17.9	100.0
Beaubier Acres	8,097	1,467	875	150	130	6,635	195	284	-	52	12,440	30,325
Per cent of Total	26.7	4.8	2.9	0.5	0.4	21.9	0.7	0.9	-	0.2	41.0	100.0
Khedive Acres	13,852	4,644	1,519	731	195	17,483	55	100	-	90	8,051	46,720
Per cent of Total	29.7	9.9	3.3	1.6	0.4	37.4	0.1	0.2	-	0.2	17.2	100.0
Verwood Acres	15,096	6,074	1,703	378	142	18,655	725	280	-	-	7,870	50,923
Per cent of Total	29.6	11.9	3.4	0.7	0.3	36.6	1.4	0.6	-	-	15.5	100.0
Scout Lake Acres	13,192	4,464	2,225	748	200	17,048	1,270	65	110	250	11,931	51,503
Per cent of Total	25.6	8.7	4.3	1.4	0.4	33.1	2.5	0.1	0.2	0.5	23.2	100.0
Trossachs Acres	11,197	3,162	2,184	397	-	15,162	370	507	-	647	9,738	43,364
Per cent of Total	25.8	7.3	5.0	0.8	-	35.0	0.9	1.2	-	1.5	22.5	100.0
Gladmar Acres	18,123	3,418	2,165	506	175	17,925	503	247	-	73	21,185	64,320
Per cent of Total	28.2	5.3	3.3	0.8	0.3	27.9	0.8	0.4	-	0.1	32.9	100.0
Benson Acres	16,604	5,357	1,775	1,166	255	20,394	676	48	-	20	8,335	54,630
Per cent of Total	30.4	9.8	3.3	2.1	0.5	37.3	1.2	0.1	-	0.0	15.3	100.0

(continued)

TABLE 16. GRAIN FARM ACREAGE DEVOTED TO SPECIFIED USE BY DELIVERY POINT, 1962-63 (continued)

Delivery Point	Wheat	Durum	Oats	Barley	Rye	Summer Fallow	Forage Crops	Flaxseed	Rapeseed	Other Crops	Unimproved Land	Total
Griffin												
Acres	25,537	3,366	5,912	937	490	27,823	1,970	577	-	354	13,204	80,170
Per cent of Total	31.8	4.2	7.4	1.2	0.6	34.7	2.5	0.7	-	0.4	16.5	100.0
Forget												
Acres	15,229	1,330	2,969	1,365	735	18,020	1,738	347	-	170	10,702	52,605
Per cent of Total	28.9	2.5	5.6	2.6	1.4	34.3	3.3	0.7	-	0.3	20.4	100.0
Halbrite												
Acres	14,695	567	2,920	603	125	12,623	848	192	-	329	8,812	41,714
Per cent of Total	35.2	1.4	7.0	1.4	0.3	30.3	2.0	0.5	-	0.8	21.1	100.0
Bromhead												
Acres	20,221	5,803	1,040	482	952	23,890	177	125	-	566	9,514	62,770
Per cent of Total	32.2	9.2	1.6	0.8	1.5	38.1	0.3	0.2	-	0.9	15.2	100.0
Goodwater												
Acres	13,785	1,786	3,036	385	-	16,731	544	30	-	55	8,502	44,854
Per cent of Total	30.7	4.0	6.8	0.9	-	37.3	1.2	0.1	-	0.1	18.9	100.0
Fife Lake												
Acres	24,860	3,727	1,701	2,242	1,200	20,425	1,130	524	-	40	7,671	63,520
Per cent of Total	39.1	5.9	2.7	3.5	1.9	32.1	1.8	0.8	-	0.1	12.1	100.0
Oungre												
Acres	12,529	1,360	1,230	96	340	13,799	450	235	-	90	9,710	39,839
Per cent of Total	31.5	3.4	3.1	0.2	0.9	34.6	1.1	0.6	-	0.2	24.4	100.0
Colgate												
Acres	19,926	2,410	2,609	395	-	23,893	534	35	-	213	7,484	57,499
Per cent of Total	34.7	4.2	4.5	0.7	-	41.6	0.9	0.0	-	0.4	13.0	100.0
Tribune												
Acres	31,698	3,805	3,781	527	400	33,767	1,504	118	-	237	15,141	90,978
Per cent of Total	34.8	4.2	4.2	0.6	0.4	37.1	1.7	0.1	-	0.3	16.6	100.0
Viceroy												
Acres	17,378	8,143	751	717	282	20,836	348	40	-	90	4,151	52,736
Per cent of Total	32.9	15.4	1.4	1.4	0.5	39.5	0.7	0.1	-	0.2	7.9	100.0
Macoun												
Acres	22,545	1,654	4,465	650	1,364	23,641	1,368	579	-	106	11,192	67,564
Per cent of Total	33.4	2.4	6.6	1.0	2.0	35.0	2.0	0.9	-	0.1	16.6	100.0
Big Beaver												
Acres	19,164	3,528	3,518	1,351	2,434	20,796	1,603	323	-	275	35,729	88,721
Per cent of Total	21.6	4.0	4.0	1.5	2.7	23.4	1.8	0.4	-	0.3	40.3	100.0
Lake Alma												
Acres	19,807	2,749	2,436	636	475	18,818	1,084	669	-	78	26,468	73,220
Per cent of Total	27.1	3.8	3.3	0.9	0.6	25.7	1.5	0.9	-	0.1	36.1	100.0
Minton												
Acres	27,905	1,000	3,959	330	245	19,884	332	225	-	538	27,278	81,696
Per cent of Total	34.2	1.2	4.8	0.4	0.3	24.3	0.4	0.3	-	0.7	33.4	100.0
Creelman												
Acres	24,422	4,957	5,173	2,760	775	29,205	1,196	1,595	-	118	11,258	81,459
Per cent of Total	30.0	6.1	6.3	3.4	0.9	35.9	1.5	2.0	-	0.1	13.8	100.0

(continued)

TABLE 16. GRAIN FARM ACREAGE DEVOTED TO SPECIFIED USE BY DELIVERY POINT, 1962-63 (concluded)

Delivery Point	Wheat	Durum	Oats	Barley	Rye	Summer Fallow	Forage Crops	Flaxseed	Rapeseed	Other Crops	Unimproved Land	Total
<i>Towns</i>												
Pangman Acres	15,735	5,999	1,653	528	20	20,448	1,141	80	-	5	11,085	56,694
Per cent of Total	27.8	10.6	2.9	0.9	0.0	36.1	2.0	0.1	-	0.0	19.6	100.0
Ceylon Acres	21,554	13,871	3,165	373	-	32,980	480	460	-	15	20,132	93,030
Per cent of Total	23.2	14.9	3.4	0.4	-	35.5	0.5	0.5	-	0.0	21.6	100.0
Torquay Acres	36,799	8,302	2,171	915	2,344	42,233	460	342	-	438	12,842	106,846
Per cent of Total	34.5	7.8	2.0	0.9	2.2	39.5	0.4	0.3	-	0.4	12.0	100.0
Willow Bunch Acres	20,247	8,059	2,449	1,001	858	26,298	779	340	80	610	12,564	73,285
Per cent of Total	27.6	11.0	3.3	1.4	1.2	35.9	1.1	0.5	0.1	0.8	17.1	100.0
Coronach Acres	22,557	3,724	2,756	3,097	534	23,177	1,835	229	-	370	13,262	71,541
Per cent of Total	31.5	5.2	3.9	4.3	0.8	32.4	2.6	0.3	-	0.5	18.5	100.0
Midale Acres	32,925	2,891	5,145	710	226	35,988	2,838	40	-	688	18,151	99,602
Per cent of Total	33.1	2.9	5.2	0.7	0.2	36.1	2.9	0.0	-	0.7	18.2	100.0
Ogema Acres	14,818	6,668	1,961	356	-	18,980	1,439	155	-	20	12,280	56,677
Per cent of Total	26.1	11.8	3.5	0.6	-	33.5	2.5	0.3	-	0.0	21.7	100.0
<i>Greater Towns</i>												
Lampman Acres	26,585	1,655	5,700	2,360	780	31,005	855	195	-	155	12,772	82,062
Per cent of Total	32.4	2.0	7.0	2.9	1.0	37.8	1.0	0.2	-	0.1	15.6	100.0
Bengough Acres	33,332	10,325	6,232	1,478	977	38,423	1,868	1,189	-	116	32,601	126,541
Per cent of Total	26.3	8.1	4.9	1.2	0.8	30.4	1.5	0.9	-	0.1	25.8	100.0
Stoughton Acres	21,976	2,435	4,711	2,361	675	26,842	3,261	547	-	175	17,379	80,362
Per cent of Total	27.4	3.0	5.9	2.9	0.8	33.4	4.1	0.7	-	0.2	21.6	100.0
Radville Acres	54,799	17,822	3,887	798	510	64,213	1,736	904	-	365	22,712	167,746
Per cent of Total	32.7	10.6	2.3	0.5	0.3	38.3	1.0	0.5	-	0.2	13.6	100.0
<i>Cities</i>												
Estevan Acres	42,425	2,105	8,903	4,731	3,709	42,959	3,357	1,878	4	1,112	24,910	136,093
Per cent of Total	31.2	1.5	6.5	3.5	2.7	31.6	2.5	1.4	0.0	0.8	18.3	100.0
Weyburn Acres	59,617	13,915	11,562	2,570	750	65,071	2,900	911	300	1,685	22,444	181,725
Per cent of Total	32.8	7.7	6.4	1.4	0.4	35.8	1.6	0.5	0.2	0.9	12.3	100.0
Study Area Total Acres	1,111,562	228,967	159,097	56,624	27,660	1,230,087	53,788	21,330	1,174	12,665	697,326	3,600,280
Per cent of Total	30.8	6.4	4.4	1.6	0.8	34.2	1.5	0.6	0.0	0.3	19.4	100.0

Source: Canadian Wheat Board, Winnipeg.

TABLE 17. GRAIN FARM ACREAGE DEVOTED TO SPECIFIED USE BY DELIVERY POINT, 1969-70

Delivery Point	Wheat	Durum	Oats	Barley	Rye	Summer Fallow	Forage Crops	Flaxseed	Rapeseed	Other Crops	Unimproved Land	Total
<i>Too Small to Classify</i>												
Axford												
Acres	Closed											
Per cent of Total												
Gye	Closed											
Acres												
Per cent of Total												
Abbott	Closed											
Acres												
Per cent of Total												
Brooking	Closed											
Acres												
Per cent of Total												
Blewett	Closed											
Acres												
Per cent of Total												
Blooming	Closed											
Acres												
Per cent of Total												
Caxton	Closed											
Acres												
Per cent of Total												
Buffalo Gap	Closed											
Acres												
Per cent of Total												
Clearfield												
Acres	3,421	450	392	124	125	4,138	445	-	-	90	1,278	10,463
Per cent of Total	32.7	4.3	3.7	1.2	1.2	39.5	4.3	-	-	0.9	12.2	100.0
Innes												
Acres	6,020	515	595	395	-	6,407	448	180	-	-	2,550	17,110
Per cent of Total	35.2	3.0	3.5	2.3	-	37.4	2.6	1.1	-	-	14.9	100.0
Ritchie												
Acres	3,290	1,545	583	178	-	3,288	397	145	-	-	4,607	14,033
Per cent of Total	23.4	11.0	4.2	1.3	-	23.4	2.8	1.1	-	-	32.8	100.0
Roncott												
Acres	7,410	2,565	319	399	-	9,996	503	-	-	-	3,947	25,139
Per cent of Total	29.5	10.2	1.2	1.6	-	39.8	2.0	-	-	-	15.7	100.0
Bryant												
Acres	6,253	818	402	140	-	5,245	145	10	-	-	1,460	14,473
Per cent of Total	43.2	5.7	2.7	1.0	-	36.2	1.0	0.1	-	-	10.1	100.0
Union Jack												
Acres	4,499	395	296	380	-	4,416	413	-	-	-	922	11,321
Per cent of Total	39.7	3.5	2.6	3.4	-	39.0	3.7	-	-	-	8.1	100.0

(continued)

TABLE 17. GRAIN FARM ACREAGE DEVOTED TO SPECIFIED USE BY DELIVERY POINT, 1969-70 (continued)

Delivery Point	Wheat	Durum	Oats	Barley	Rye	Summer Fallow	Forage Crops	Flaxseed	Rapeseed	Other Crops	Unimproved Land	Total
Hoffer												
Acres	6,363	1,705	697	490	-	8,390	535	-	-	40	4,779	22,999
Per cent of Total	27.7	7.4	3.1	2.1	-	36.5	2.3	-	-	0.2	20.7	100.0
Viewfield												
Acres	6,117	694	370	1,203	-	6,579	73	215	-	-	2,113	17,364
Per cent of Total	35.2	4.0	2.1	6.9	-	37.9	0.4	1.2	-	-	12.3	100.0
Cullen												
Acres	7,892	439	511	130	180	4,932	194	-	60	20	1,962	16,320
Per cent of Total	48.4	2.7	3.1	0.8	1.1	30.2	1.2	-	0.4	0.1	12.0	100.0
Hume												
Acres	6,360	330	945	685	70	6,516	735	-	-	50	1,998	17,689
Per cent of Total	36.0	1.9	5.3	3.8	0.4	36.8	4.2	-	-	0.3	11.3	100.0
Hitchcock												
Acres	10,264	1,556	966	395	514	10,324	551	135	-	80	4,337	29,122
Per cent of Total	35.2	5.3	3.3	1.4	1.8	35.4	1.9	0.5	-	0.3	14.9	100.0
Hamlets												
Grassdale												
Acres	8,079	530	810	658	-	8,174	95	55	-	25	2,384	20,810
Per cent of Total	38.8	2.5	3.9	3.2	-	39.3	0.5	0.3	-	0.1	11.4	100.0
Talmage												
Acres	18,474	1,216	1,070	1,088	-	16,745	1,515	377	-	70	3,875	44,430
Per cent of Total	41.6	2.7	2.4	2.5	-	37.7	3.4	0.8	-	0.2	8.7	100.0
Huntoon												
Acres	9,380	810	799	1,187	411	10,726	65	280	40	-	4,178	27,876
Per cent of Total	33.6	2.9	2.9	4.3	1.5	38.5	0.2	1.0	0.1	-	15.0	100.0
Ralph												
Acres	5,856	916	525	1,632	-	4,753	340	150	-	-	2,798	16,970
Per cent of Total	34.5	5.4	3.1	9.6	-	28.0	2.0	0.9	-	-	16.5	100.0
East Poplar												
Acres	14,726	1,665	514	615	65	13,169	600	200	-	65	4,059	35,678
Per cent of Total	41.2	4.7	1.4	1.7	0.2	36.9	1.7	0.6	-	0.2	11.4	100.0
Hart												
Acres	10,391	1,721	765	1,019	-	10,239	690	20	-	-	3,207	28,052
Per cent of Total	37.0	6.1	2.7	3.7	-	36.5	2.5	0.1	-	-	11.4	100.0
Ratcliffe												
Acres	7,314	2,285	1,117	272	140	10,146	307	-	-	210	9,195	30,986
Per cent of Total	23.6	7.4	3.6	0.9	0.5	32.7	0.9	-	-	0.7	29.7	100.0
Glasnevin												
Acres	11,824	3,528	595	205	105	13,404	453	168	-	90	5,859	36,221
Per cent of Total	32.6	9.7	1.6	0.6	0.3	37.0	1.3	0.4	-	0.3	16.2	100.0
Hartree												
Acres	9,849	4,605	1,104	1,775	120	12,620	752	415	-	18	6,653	37,911
Per cent of Total	25.9	12.1	2.9	4.7	0.3	33.3	2.0	1.2	-	0.1	17.5	100.0

(continued)

TABLE 17. GRAIN FARM ACREAGE DEVOTED TO SPECIFIED USE BY DELIVERY POINT, 1969-70 (continued)

Delivery Point	Wheat	Durum	Oats	Barley	Rye	Summer Fallow	Forage Crops	Flaxseed	Rapeseed	Other Crops	Unimproved Land	Total
Horizon												
Acres	14,673	7,722	838	541	605	18,497	1,340	160	-	84	6,384	50,844
Per cent of Total	28.8	15.2	1.6	1.1	1.2	36.4	2.6	0.3	-	0.2	12.6	100.0
Outram												
Acres	25,978	11,694	2,005	963	699	30,722	1,145	77	-	75	10,824	84,182
Per cent of Total	31.0	13.8	2.4	1.1	0.8	36.5	1.4	0.1	-	0.1	12.8	100.0
Woodley												
Acres	6,923	1,840	855	440	100	6,118	103	-	300	-	2,341	19,020
Per cent of Total	36.4	9.7	4.5	2.3	0.5	32.2	0.5	-	1.6	-	12.3	100.0
Constance												
Acres	14,303	3,639	620	655	764	12,485	635	425	-	265	5,104	38,895
Per cent of Total	36.7	9.3	1.6	1.7	2.0	32.2	1.6	1.1	-	0.7	13.1	100.0
Hardy												
Acres	11,397	4,914	930	493	40	14,284	435	355	-	-	9,737	42,585
Per cent of Total	26.7	11.5	2.2	1.3	0.1	33.5	1.0	0.8	-	-	22.9	100.0
Amulet												
Acres	8,258	2,033	645	344	35	9,395	1,034	156	-	200	5,670	27,770
Per cent of Total	29.7	7.3	2.3	1.2	0.1	34.0	3.7	0.6	-	0.7	20.4	100.0
Heward												
Acres	12,039	615	810	3,590	430	13,506	210	1,000	-	55	2,789	35,044
Per cent of Total	34.3	2.0	2.2	10.2	1.2	38.5	0.5	3.0	-	0.1	8.0	100.0
Villages												
Froude												
Acres	6,519	685	395	1,545	-	6,498	330	250	-	30	1,810	18,062
Per cent of Total	36.0	3.8	2.2	8.6	-	36.0	1.8	1.4	-	0.2	10.0	100.0
Beaubier												
Acres	6,968	2,388	519	219	322	8,413	752	-	-	50	11,785	31,416
Per cent of Total	22.2	7.6	1.6	0.7	1.0	26.8	2.4	-	-	0.2	37.5	100.0
Khedive												
Acres	24,585	3,140	1,169	1,335	-	21,991	285	195	-	25	8,479	61,204
Per cent of Total	40.2	5.1	1.9	2.2	-	35.9	0.5	0.3	-	0.1	13.8	100.0
Verwood												
Acres	15,125	7,628	1,053	225	100	18,548	815	600	-	10	7,326	51,430
Per cent of Total	29.4	14.8	2.0	0.4	0.3	36.1	1.6	1.2	-	0.0	14.2	100.0
Scout Lake												
Acres	12,117	4,247	1,433	540	400	15,177	1,408	75	-	10	11,404	46,811
Per cent of Total	25.8	9.1	3.0	1.2	0.9	32.4	3.0	0.2	-	0.0	24.4	100.0
Trossachs												
Acres	15,814	1,725	1,481	730	100	16,950	477	810	-	60	6,750	44,897
Per cent of Total	35.2	3.8	3.4	1.6	0.2	37.8	1.1	1.8	-	0.1	15.0	100.0
Gladmar												
Acres	16,592	4,101	1,740	453	305	18,600	1,006	-	-	407	18,594	61,798
Per cent of Total	26.9	6.6	2.8	0.7	0.5	30.1	1.6	-	-	0.7	30.1	100.0

(continued)

TABLE 17. GRAIN FARM ACREAGE DEVOTED TO SPECIFIED USE BY DELIVERY POINT, 1969-70 (continued)

Delivery Point	Wheat	Durum	Oats	Barley	Rye	Summer Fallow	Forage Crops	Flaxseed	Rapeseed	Other Crops	Unimproved Land	Total
Benson Acres Per cent of Total	19,840 35.3	5,674 10.1	1,026 1.8	1,416 2.5	20 0.0	21,271 37.8	393 0.7	405 0.8	-	125 0.2	6,077 10.8	56,247 100.0
Griffin Acres Per cent of Total	31,679 38.9	3,416 4.1	2,913 3.6	3,331 4.2	230 0.3	29,008 35.7	1,573 1.9	765 0.9	-	45 0.1	8,379 10.3	81,339 100.0
Forget Acres Per cent of Total	14,878 32.3	745 1.6	2,823 6.2	1,170 2.5	885 1.9	15,571 33.8	2,320 5.0	260 0.6	-	90 0.3	7,274 15.8	46,016 100.0
Halbrite Acres Per cent of Total	15,961 34.9	1,965 4.3	1,713 3.8	1,859 4.1	110 0.2	13,577 29.7	2,451 5.4	134 0.3	-	230 0.5	7,684 16.8	45,684 100.0
Bromhead Acres Per cent of Total	23,303 33.1	7,571 10.7	830 1.2	1,144 1.6	680 1.0	27,950 39.8	529 0.8	422 0.6	-	110 0.2	7,766 11.0	70,305 100.0
Goodwater Acres Per cent of Total	13,906 34.8	1,185 2.9	1,567 3.9	1,440 3.6	-	14,185 35.6	1,395 3.6	-	-	-	6,236 15.6	39,914 100.0
Fife Lake Acres Per cent of Total	24,527 36.2	6,285 9.3	1,415 2.1	2,082 3.1	145 0.2	24,420 36.0	1,595 2.3	275 0.4	-	55 0.1	6,966 10.3	67,765 100.0
Oungre Acres Per cent of Total	10,977 32.3	1,700 5.0	747 2.2	345 1.0	375 1.1	11,687 34.3	485 1.4	-	-	25 0.1	7,688 22.6	34,029 100.0
Colgate Acres Per cent of Total	21,752 40.2	2,466 4.6	1,574 2.9	1,105 2.0	-	20,660 38.1	616 1.1	-	-	142 0.3	5,846 10.8	54,161 100.0
Tribune Acres Per cent of Total	32,545 33.3	6,728 6.9	3,428 3.5	2,776 2.8	283 0.3	34,513 35.4	2,494 2.6	15 0.0	-	-	14,810 15.2	97,592 100.0
Viceroy Acres Per cent of Total	18,663 33.3	9,091 16.2	580 1.0	535 1.0	473 0.8	22,301 40.0	535 1.0	225 0.4	-	20 0.0	3,570 6.3	55,993 100.0
Macoun Acres Per cent of Total	27,048 35.6	3,176 4.2	3,876 5.1	2,283 3.0	230 0.3	29,641 39.1	1,330 1.8	165 0.2	-	180 0.2	7,944 10.5	75,873 100.0
Big Beaver Acres Per cent of Total	25,157 25.1	7,882 7.8	2,766 2.8	828 0.8	300 0.3	26,669 26.6	1,633 1.6	32 0.0	-	70 0.0	35,166 35.0	100,503 100.0
Lake Alma Acres Per cent of Total	20,579 25.8	2,799 3.5	2,486 3.1	1,481 1.9	290 0.4	21,990 27.6	3,233 4.1	85 0.1	-	275 0.3	26,397 33.2	79,615 100.0
Minton Acres Per cent of Total	24,463 28.4	4,475 5.2	3,294 3.8	515 0.6	370 0.4	23,583 27.3	1,900 2.2	964 1.1	-	170 0.3	26,527 30.7	86,261 100.0

(continued)

TABLE 17. GRAIN FARM ACREAGE DEVOTED TO SPECIFIED USE BY DELIVERY POINT, 1969-70 (continued)

Delivery Point	Wheat	Durum	Oats	Barley	Rye	Summer Fallow	Forage Crops	Flaxseed	Rapeseed	Other Crops	Unimproved Land	Total
<i>Towns</i>												
Creelman												
Acres	25,560	3,275	3,538	5,413	950	33,596	920	2,095	-	130	8,599	84,076
Per cent of Total	30.4	3.9	4.2	6.4	1.1	39.9	1.2	2.5	-	0.2	10.2	100.0
Pangman												
Acres	21,596	4,650	1,178	1,353	190	23,580	1,625	160	-	5	10,614	64,951
Per cent of Total	33.2	7.3	1.8	2.1	0.3	36.3	2.5	0.2	-	0.0	16.3	100.0
Ceylon												
Acres	27,915	10,184	2,064	365	100	33,657	544	605	-	17	17,673	93,124
Per cent of Total	29.9	11.0	2.2	0.5	0.1	36.2	0.6	0.6	-	0.0	18.9	100.0
Torquay												
Acres	35,570	18,673	1,422	1,990	2,035	44,240	362	430	-	115	6,691	111,528
Per cent of Total	31.9	16.7	1.3	1.8	1.8	39.8	0.3	0.4	-	0.1	5.9	100.0
Willow Bunch												
Acres	28,421	11,309	1,826	1,352	607	35,152	1,163	776	-	25	15,247	95,878
Per cent of Total	29.7	11.8	1.9	1.4	0.6	36.7	1.2	0.8	-	0.0	15.9	100.0
Coronach												
Acres	28,962	6,355	1,773	3,512	55	31,639	2,117	220	30	90	12,378	87,131
Per cent of Total	33.2	7.3	2.0	4.0	0.0	36.3	2.5	0.3	0.1	0.1	14.2	100.0
Midale												
Acres	32,043	4,031	4,215	3,082	1,810	35,584	4,700	203	-	460	13,793	99,921
Per cent of Total	32.1	4.0	4.2	3.1	1.8	35.6	4.7	0.2	-	0.5	13.8	100.0
Ogema												
Acres	20,380	7,511	1,522	619	-	22,962	1,429	88	-	70	11,962	66,543
Per cent of Total	30.6	11.3	2.3	0.9	-	34.6	2.2	0.1	-	0.1	17.9	100.0
<i>Greater Towns</i>												
Lampman												
Acres	45,282	4,613	6,552	4,135	1,415	40,724	1,495	307	-	-	10,362	114,885
Per cent of Total	39.4	4.0	5.7	3.6	1.2	35.4	1.3	0.4	-	-	9.0	100.0
Bengough												
Acres	30,112	14,374	4,278	1,642	95	39,107	2,705	217	-	441	31,601	124,572
Per cent of Total	24.1	11.5	3.4	1.3	0.1	31.4	2.2	0.2	-	0.4	25.4	100.0
Stoughton												
Acres	33,411	3,669	3,880	8,127	292	38,698	2,879	1,014	100	261	14,551	106,882
Per cent of Total	31.3	3.4	3.6	7.6	0.3	36.2	2.7	0.9	0.1	0.3	13.6	100.0
Radville												
Acres	71,664	16,205	3,593	3,649	780	76,859	2,264	2,700	-	63	21,733	199,510
Per cent of Total	35.9	8.1	1.8	1.8	0.4	38.5	1.1	1.5	-	0.0	10.9	100.0

(continued)

TABLE 17. GRAIN FARM ACREAGE DEVOTED TO SPECIFIED USE BY DELIVERY POINT, 1969-70 (concluded)

Delivery Point	Wheat	Durum	Oats	Barley	Rye	Summer Fallow	Forage Crops	Flaxseed	Rapeseed	Other Crops	Unimproved Land	Total
<i>Cities</i>												
Estevan												
Acres	48,619	6,235	5,912	3,507	5,189	44,222	6,758	575	-	60	23,530	144,607
Per cent of Total	33.6	4.3	4.1	2.4	3.6	30.6	4.7	0.4	-	0.1	16.2	100.0
Weyburn												
Acres	83,994	10,784	8,219	7,996	520	75,813	3,612	2,515	180	573	18,826	213,032
Per cent of Total	39.4	5.1	3.8	3.8	0.2	35.6	1.7	1.2	0.1	0.3	8.8	100.0
Study Area Total												
Acres	1,213,880	271,685	108,878	24,059	94,095	1,294,250	74,286	22,095	710	5,876	577,048	3,686,862
Per cent of Total	32.9	7.4	3.0	2.5	0.7	35.1	2.0	0.6	0.0	0.1	15.7	100.0

Source: Canadian Wheat Board, Winnipeg.

Crop Yields

Detailed crop yield data for each delivery point is shown in Table 18. Where available, the ten-year high, low, range and average yields for wheat, oats, barley, rye and flaxseed are given. One would expect yields to reflect soil capability class, however, this association is not that pronounced. For example, from the soil maps one might expect wheat yields at Innes and Huntoon, where 80 per cent of the soil is Class 3, to be better than those at Radville, where soils range from Class 3 to 5. However, Radville had the highest ten-year average of all (25 bushels), the second highest yield (38 compared to Forget with 40), and a lower yield variability or range (26) than either Innes (34) or Huntoon (29). Besides showing the highest wheat yield, Forget also had the widest range at 37 bushels.

At the lower end of the average wheat yield scale are Clearfield, Bengough and Ritchie. Clearfield, situated largely on Class 5 soil had a ten-year average of 15 bushels. Nine-year data at Bengough and Ritchie, which are neighboring centers and have essentially the same types of soil (Classes 3 - 6) also indicate average yields of only 15 bushels. Also, Bengough had the smallest range of all points (16) as well as the lowest of the high wheat yields.

Similar comparisons can be made with the other crops.

TABLE 18. TEN-YEAR AVERAGE YIELD OF WHEAT, OATS, BARLEY, RYE AND FLAXSEED BY DELIVERY POINT, 1960-69

Delivery Point	Wheat				Oats				Barley				Rye				Flaxseed			
	Ten-Year		Ten-Year		Ten-Year		Ten-Year		Ten-Year		Ten-Year		Ten-Year		Ten-Year		Ten-Year		Ten-Year	
	High	Low	Range	Average	High	Low	Range	Average	High	Low	Range	Average	High	Low	Range	Average	High	Low	Range	Average
- bushels per acre -																				
<i>Too Small to Classify</i>																				
Axford ^a	28	6	22	21 ^l	60	8	52	41 ^l	50	25	25	38 ^g	-	-	-	-	3	1	2	2 ^g
Gye ^b	27	5	22	15 ^h	40	10	30	23 ^h	35	8	27	21 ^h	25	7	18	14 ^h	15	6	9	10 ^h
Abbott ^c	25	5	20	16 ^m	50	10	40	30 ^l	35	10	25	24 ^l	-	-	-	-	15	2	13	9 ⁱ
Brooking ^c	28	6	22	17 ⁿ	50	6	44	31 ⁿ	40	7	33	25 ⁿ	30	20	10	25 ^g	15	4	11	10 ⁱ
Blewett ^c	25	2	23	17 ⁿ	50	25	25	34 ^l	35	20	15	30 ⁱ	-	-	-	-	10	10	0	10 ^f
Blooming ^a	27	20	7	24 ⁱ	50	30	20	33 ⁱ	-	-	-	-	-	-	-	-	8	8	0	8 ^f
Caxton ^d	25	4	21	18 ⁱ	40	5	35	28 ⁱ	40	6	34	25 ⁱ	15	15	0	15 ^f	15	1	14	10 ⁱ
Buffalo Gap ^e	20	3	17	14 ⁱ	50	5	45	30 ⁱ	35	4	31	22 ⁱ	5	5	0	5 ^f	15	2	13	9 ⁱ
Clearfield	30	5	25	15	60	8	52	29	55	5	50	24 ⁿ	8	5	3	6 ^g	20	4	16	12 ⁱ
Innes	35	1	34	20	60	1	59	34	50	1	49	29	20	15	5	18 ⁱ	20	5	15	12 ⁱ
Ritchie	30	1	29	15 ⁿ	57	10	47	27 ^m	45	5	40	23 ^m	-	-	-	-	15	2	13	9 ^j
Roncott	30	2	28	18	55	3	52	35	40	2	38	26	5	5	0	5 ^f	10	4	6	7 ^g
Bryant	31	3	28	19 ⁿ	60	2	58	35 ⁿ	45	3	42	27 ⁿ	30	15	15	20 ⁱ	10	3	7	7 ^m
Union Jack	30	5	25	20	45	8	37	33	50	9	41	29	-	-	-	-	4	4	0	4 ^f
Hoffer	35	10	25	20 ⁿ	60	15	45	39 ⁿ	50	12	38	30 ⁿ	40	18	22	29 ^g	15	6	9	10 ^l
Viewfield	30	4	26	21	60	8	52	38	40	12	28	30	-	-	-	-	18	2	16	10 ⁿ
Cullen	35	3	32	20	70	20	50	42 ⁿ	75	8	67	30 ^m	25	10	15	15 ^k	20	2	18	7 ⁿ
Hume	35	5	30	19 ^l	40	5	35	28 ^l	40	5	35	25 ^l	20	5	15	14 ⁱ	7	7	0	7 ^f
Hitchcock	27	2	25	17	50	15	35	35 ⁿ	45	16	29	29 ⁿ	27	10	17	21 ⁿ	14	3	11	9 ⁿ
<i>Hamlets</i>																				
Grassdale	27	7	20	18	60	15	45	38	60	10	50	30 ⁿ	-	-	-	-	20	5	15	12 ⁿ
Talmage	35	8	27	22	60	10	50	41	40	20	20	31	-	-	-	-	16	10	6	12 ⁿ
Huntoon	30	1	29	18	60	1	59	39	35	20	15	31 ⁿ	40	30	10	32 ^l	15	8	7	12 ⁿ
Ralph	35	5	30	22	50	3	47	32	55	4	51	32	-	-	-	-	15	1	14	7 ^m
East Poplar	25	3	22	17	50	20	30	33 ^m	40	5	35	26	20	20	0	20 ^f	13	7	6	10 ⁱ
Hart	30	3	27	20	50	2	48	32	50	2	48	31	20	10	10	15 ^h	15	5	10	10 ^k
Ratcliffe	30	2	28	18	50	4	46	30	35	3	32	23 ^l	20	20	0	20 ^j	10	6	4	8 ^j
Glasnevin	30	3	27	18	70	20	50	38 ⁿ	50	15	35	19 ⁿ	20	15	5	18 ^g	15	2	13	8
Harpree	25	2	23	16 ⁿ	70	3	67	34 ⁿ	65	3	62	26 ⁿ	10	4	6	7 ⁱ	12	8	4	9 ^k
Horizon	30	3	27	17	75	5	70	38	60	3	57	30	23	5	18	15 ⁿ	20	3	17	11 ⁿ
Outram	30	7	23	19 ⁿ	75	20	55	44 ^m	40	4	36	25 ⁿ	25	10	15	16 ^l	20	4	16	10 ⁿ
Woodley	30	3	27	20	60	15	45	37 ⁿ	50	15	35	27 ^m	20	3	17	12 ^l	15	4	11	8 ^m
Constance	30	3	27	16	60	25	35	42 ⁿ	40	20	20	27 ⁿ	25	5	20	15 ⁿ	10	2	8	7
Hardy	30	3	27	18	60	11	49	38 ⁿ	50	10	40	31 ^m	30	20	10	23 ^h	15	2	13	8
Amulet	35	14	21	22 ⁿ	99	10	89	43 ⁿ	55	10	45	32 ⁿ	30	20	10	24 ^k	10	10	0	10 ^f
Heward	35	4	31	23	80	3	77	44	60	4	56	32	40	12	28	25 ⁿ	22	4	18	11
<i>Villages</i>																				
Froude	35	3	32	21	50	5	45	30	45	9	36	29	40	10	30	25 ^l	15	3	12	10 ⁿ
Beaubier	35	3	32	20	50	5	45	34	45	5	40	28	30	10	20	18 ^m	18	1	17	9 ⁿ
Khedive	35	12	23	22 ⁿ	60	10	50	37 ⁿ	50	10	40	27 ⁿ	20	15	5	17 ^h	20	5	15	10 ^k
Verwood	25	4	21	17	50	3	47	30 ⁿ	40	2	38	22	10	10	0	10 ^f	12	3	9	8 ^m
Scout Lake	35	5	30	20	60	8	52	36	40	6	34	28	16	10	6	13 ⁱ	18	4	14	9 ^m

See footnotes at end of table

(continued)

TABLE 18. TEN-YEAR AVERAGE YIELD OF WHEAT, OATS, BARLEY, RYE AND FLAXSEED BY DELIVERY POINT, 1960-69 (concluded)

Delivery Point	Wheat					Oats					Barley					Rye					Flaxseed																																																																																																																																																																
	High		Low		Ten-Year Range Average	High		Low		Ten-Year Range Average	High		Low		Ten-Year Range Average	High		Low		Ten-Year Range Average	High		Low		Ten-Year Range Average																																																																																																																																																												
	Range		Range			Range		Range			Range		Range			Range		Range			Range																																																																																																																																																																
Trossachs	35	5	30	20	37	60	6	54	-	40	5	35	26	10	7	3	9 ^h	20	3	17	10	3	17	10																																																																																																																																																													
Gladmar	30	8	22	20 ⁿ	50	70	20	50	43 ⁿ	40	10	30	26 ⁿ	25	10	15	17 ⁱ	10	3	7	8 ⁱ	3	7	8 ⁱ																																																																																																																																																													
Benson	30	4	26	18	65	75	10	65	42	45	7	38	24	35	6	29	22 ⁱ	20	3	17	23	2	23	10																																																																																																																																																													
Griffin	35	1	34	19	59	60	1	59	38	50	2	48	26	30	15	15	24 ^k	25	2	18	10 ^m	2	18	10 ^m																																																																																																																																																													
Forget	40	3	37	19	87	90	3	87	39	70	2	68	27	25	10	15	18 ^j	20	7	13	12 ⁱ	7	13	12 ⁱ																																																																																																																																																													
Halbrite	28	3	25	20	45	50	5	45	36	40	5	35	27	25	10	15	19 ⁿ	15	8	7	10 ⁿ	8	7	10 ⁿ																																																																																																																																																													
Bromhead	30	3	27	19	65	75	10	65	40	50	5	45	26	30	10	20	19 ⁿ	15	5	10	10 ^h	5	10	10 ^h																																																																																																																																																													
Goodwater	28	3	25	18	40	55	15	40	39 ⁿ	40	15	25	30 ⁿ	25	2	23	13 ^m	10	4	6	7 ⁿ	4	6	7 ⁿ																																																																																																																																																													
Fife Lake	25	1	24	18	40	60	20	40	38 ⁿ	40	1	39	25	30	12	18	21 ⁿ	12	3	9	8 ^m	3	9	8 ^m																																																																																																																																																													
Oungre	30	3	27	18	5	50	5	45	31	45	4	41	30	30	6	0	-	6	6	0	6 ^f	6	0	6 ^f																																																																																																																																																													
Colgate	30	4	26	19	60	65	5	60	39	45	6	39	30	30	10	15	18 ⁿ	10	6	4	9 ⁱ	6	4	9 ⁱ																																																																																																																																																													
Tribune	35	4	31	20	70	75	5	70	32	50	1	49	25	25	10	15	18 ⁿ	10	6	4	9 ⁱ	6	4	9 ⁱ																																																																																																																																																													
Viceroy	28	2	26	18	45	60	15	45	38 ⁿ	49	15	34	22 ⁿ	25	7	18	17 ⁿ	18	7	11	13 ⁱ	7	11	13 ⁱ																																																																																																																																																													
Macoun	30	1	29	18	50	60	10	50	40 ⁿ	45	20	25	26 ⁿ	30	2	28	21	20	5	15	10 ⁿ	5	15	10 ⁿ																																																																																																																																																													
Big Beaver	32	1	31	18	60	80	20	60	43 ⁿ	50	15	35	32 ⁿ	25	5	20	16 ⁿ	18	5	13	10 ⁱ	5	13	10 ⁱ																																																																																																																																																													
Lake Alma	30	13	17	21 ⁿ	45	60	15	45	38 ⁿ	40	15	25	28 ⁿ	20	6	14	15 ^m	13	5	8	8 ⁿ	5	8	8 ⁿ																																																																																																																																																													
Minton	30	10	20	19 ⁿ	59	70	11	59	35 ⁿ	50	9	41	28 ⁿ	20	5	15	13 ^k	12	5	7	9 ⁱ	5	7	9 ⁱ																																																																																																																																																													
Creelman	30	7	23	22	46	60	14	46	40	60	12	48	36	30	10	20	24	18	8	10	11	8	10	11																																																																																																																																																													
Towns																																																																																																																																																																																					
Pangman	33	15	18	23 ⁿ	40	60	20	40	42 ⁿ	50	20	30	36 ⁿ	25	15	10	20 ⁱ	20	10	10	16 ^m	10	10	16 ^m																																																																																																																																																													
Ceylon	30	8	22	21	50	60	10	50	41	45	10	35	31	15	15	0	15 ^f	15	3	12	9	3	12	9																																																																																																																																																													
Torquay	31	8	23	20	55	75	20	55	42 ⁿ	50	20	30	29 ⁿ	25	15	10	19 ⁿ	15	4	11	8	4	11	8																																																																																																																																																													
Willow Bunch	30	2	28	19 ⁿ	50	70	20	50	42 ^m	40	15	25	28 ^m	25	10	15	19 ^j	15	2	13	9 ^m	2	13	9 ^m																																																																																																																																																													
Coronach	30	2	28	18	35	55	20	35	36 ⁿ	48	1	47	32	20	2	18	11 ^k	11	3	8	7 ⁿ	3	8	7 ⁿ																																																																																																																																																													
Midale	30	4	26	19	59	60	1	59	40	50	2	48	28	35	5	30	17 ^k	17	4	13	9 ⁿ	4	13	9 ⁿ																																																																																																																																																													
Ogema	35	3	32	20	79	80	1	79	47	50	18	32	35	-	-	-	-	10	2	8	8 ⁱ	2	8	8 ⁱ																																																																																																																																																													
Greater Towns																																																																																																																																																																																					
Lampman	30	1	29	19 ⁿ	25	50	25	25	41 ^m	40	25	15	32 ⁿ	30	13	17	22 ⁱ	13	3	10	7 ⁿ	3	10	7 ⁿ																																																																																																																																																													
Bengough	22	6	16	15 ⁿ	45	50	5	45	29 ⁿ	40	10	30	24 ^m	20	4	16	14 ^m	15	4	11	9 ^m	4	11	9 ^m																																																																																																																																																													
Stoughton	30	4	26	22	58	60	2	58	39	50	2	48	29	30	7	23	18 ^m	20	2	18	10	2	18	10																																																																																																																																																													
Radville	38	12	26	25	62	70	8	62	42	50	6	44	29	27	5	22	19	24	5	19	12	5	19	12																																																																																																																																																													
Cities																																																																																																																																																																																					
Estevan	30	6	24	18	58	60	2	58	31 ⁿ	45	3	42	27 ⁿ	25	3	22	14 ⁿ	8	5	3	6 ^m	5	3	6 ^m																																																																																																																																																													
Weyburn	30	7	23	20	40	50	10	40	34	40	5	35	26	25	10	15	16 ⁱ	20	5	15	12	5	15	12																																																																																																																																																													
a C losed 1967 i4 year average																										b C losed 1963 j5 year average																										c C losed 1969 k6 year average																										d C losed 1964 l7 year average																										e C losed 1965 m8 year average																										f1 year average n9 year average																										g2 year average h3 year average																									

^aclosed 1967
^bclosed 1963
^cclosed 1969
^dclosed 1965
^eclosed 1964
^f1 year average
^g2 year average
^h3 year average
ⁱ1 year average
^j2 year average
^k3 year average
^l1 year average
^m2 year average
ⁿ3 year average
^o1 year average
^p2 year average
^q3 year average
^r1 year average
^s2 year average
^t3 year average
^u1 year average
^v2 year average
^w3 year average
^x1 year average
^y2 year average
^z3 year average

Source: Canadian Wheat Board, Winnipeg.

Protein Content of Wheat

The percentage of protein content in hard red spring wheat has recently become more important in the grading and marketing of wheat. Regulations under the new Canada Grain Act incorporate protein content in the new grading system. While there are other quality factors to consider, protein content is closely watched by millers and bakers.

Table 19 shows the protein content for samples of wheat by delivery point over an eight-year period. Totals for the study area and the province are also shown. It can be seen from the data that protein content varies considerably from time to time and from region to region. The lowest percentage recorded was 8.6 per cent at Ceylon in 1962. This equalled the provincial low that year. The highest level reached 19.7 per cent at Trossachs in 1968. This too, equalled the provincial maximum that year. The majority of the readings are in the 12 to 14 per cent range. In terms of annual averages the highest recorded occurred at East Poplar in 1968, 17.7 per cent, and the lowest occurred at Macoun in 1969, 12.0 per cent. Only four points in the study area (Hoffer, Talmage, East Poplar and Constance) consistently showed protein content of 14.0 per cent or higher over the eight years.

The average protein content levels in the study area differed from the Saskatchewan levels by more than 1.0 percentage point in only one year; namely, 1968.

TABLE 19. PROTEIN CONTENT OF HARD RED SPRING WHEAT BY DELIVERY POINT, 1962 TO 1969

Delivery Point	1962			1963			1964			1965			1966			1967			1968			1969		
	Aver- age	Range	Aver- age	Aver- age	Range	Aver- age	Aver- age	Range	Aver- age	Range	Aver- age	Aver- age	Range	Aver- age	Range	Aver- age	Range	Aver- age	Range	Aver- age	Range			
Too Small to Classify																								
Gye	14.6	14.1-15.1	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.			
Abbott	14.4	13.1-15.3	14.8	14.1-15.2	n.a.	n.a.	n.a.	n.a.	13.4	12.7-14.9	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	15.3	15.0-15.6	n.a.	n.a.		
Brooking	14.9	13.4-15.8	14.9	14.1-15.7	14.7	13.2-16.2	13.6	12.2-15.3	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	13.6	13.1-13.9	15.4	14.4-16.5	n.a.		
Blewett	n.a.	n.a.	n.a.	n.a.	n.a.	15.1	14.1-16.1	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.		
Buffalo Gap	13.9	12.5-14.6	n.a.	n.a.	15.5	15.2-15.8	n.a.	n.a.	13.7	12.9-15.1	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.		
Clearfield	13.3	12.6-14.1	15.6	15.3-16.0	n.a.	n.a.	n.a.	n.a.	13.3	11.7-14.8	14.3	14.0-14.7	n.a.	n.a.	15.2	14.8-15.7	n.a.	n.a.	15.4	14.1-16.7	15.4	14.1-16.7		
Innes	12.9	11.4-13.9	n.a.	n.a.	14.9	13.5-15.9	n.a.	n.a.	13.9	13.1-14.9	14.2	13.9-14.5	n.a.	n.a.	14.0	12.8-15.3	n.a.	n.a.	16.3	15.8-16.8	15.0	13.7-16.1		
Ritchie	13.9	12.5-14.7	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	13.8	n.a.	13.8	13.1-14.4	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.		
Roncott	13.8	11.9-15.0	14.0	12.6-16.0	15.3	15.0-15.5	n.a.	n.a.	13.3	12.5-14.1	14.4	14.1-14.8	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	15.5	13.5-17.6	13.9	13.3-14.2		
Bryant	14.4	13.6-15.6	15.1	14.6-15.6	13.9	12.3-15.3	13.3	n.a.	14.0	13.0-15.1	14.9	14.7-15.1	n.a.	n.a.	14.0	13.2-14.5	n.a.	n.a.	15.6	14.0-17.1	15.2	14.4-15.7		
Union Jack	14.0	13.2-14.8	14.4	14.3-14.4	15.1	14.7-15.6	14.0	n.a.	n.a.	n.a.	15.0	14.0-16.0	n.a.	n.a.	15.0	13.5-17.0	n.a.	n.a.	16.6	16.5-16.7	n.a.	n.a.		
Hoffer	13.8	13.2-15.0	14.4	14.2-14.5	15.1	14.1-16.0	n.a.	n.a.	13.4	12.3-14.6	n.a.	n.a.	n.a.	n.a.	14.8	14.3-15.8	n.a.	n.a.	16.0	15.3-16.4	14.2	13.2-15.8		
Viewfield	12.6	11.9-13.2	15.4	15.0-16.1	14.9	14.6-15.3	13.4	n.a.	13.6	13.5-13.9	14.0	13.1-14.5	n.a.	n.a.	14.1	13.6-14.5	n.a.	n.a.	15.0	13.6-16.6	13.5	12.2-14.8		
Cullen	14.7	13.7-15.7	n.a.	n.a.	14.5	13.5-15.6	13.6	n.a.	14.5	n.a.	14.5	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.		
Hume	14.5	13.0-16.0	14.4	14.3-14.6	13.1	10.7-15.1	12.6	12.2-13.1	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	14.1	13.6-14.5	n.a.	n.a.	15.0	13.6-16.6	13.5	12.2-14.8		
Hitchcock																								
Hamlets																								
Grassdale	14.2	14.0-14.5	15.4	14.4-16.4	n.a.	n.a.	n.a.	n.a.	13.2	12.9-14.0	13.8	13.4-14.2	n.a.	n.a.	14.0	13.5-14.4	n.a.	n.a.	16.2	15.7-17.1	13.9	12.9-15.7		
Talmage	14.4	12.8-15.6	14.9	14.3-15.4	15.2	14.3-16.0	n.a.	n.a.	14.2	13.6-14.9	n.a.	n.a.	n.a.	n.a.	14.1	13.5-15.0	n.a.	n.a.	15.8	14.4-17.1	n.a.	n.a.		
Huntton	13.4	13.3-13.5	15.3	14.8-15.6	15.3	14.3-17.1	n.a.	n.a.	13.5	13.4-13.6	14.9	13.8-16.0	n.a.	n.a.	14.8	14.3-15.3	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.		
Ralph	13.5	11.8-15.3	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	13.4	13.3-13.6	14.5	13.5-15.5	n.a.	n.a.	15.0	14.8-15.4	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.		
East Poplar	14.8	13.0-15.4	15.8	15.3-16.7	16.8	15.0-18.3	15.0	12.7-16.0	15.2	14.8-16.1	15.2	14.6-15.6	n.a.	n.a.	17.7	17.6-17.8	n.a.	n.a.	15.8	14.1-16.8	13.8	12.6-14.8		
Hart	14.7	13.5-15.7	15.5	14.5-17.0	16.6	16.4-16.7	12.9	12.2-13.8	14.3	13.2-15.4	n.a.	n.a.	n.a.	n.a.	15.8	14.1-16.8	n.a.	n.a.	15.9	14.8-17.4	13.9	12.4-15.1		
Ratcliffe	13.1	12.0-14.3	14.9	14.2-15.4	14.6	14.4-15.0	13.0	12.7-13.2	15.5	15.2-15.8	15.0	15.2-15.8	n.a.	n.a.	15.0	13.9-16.2	n.a.	n.a.	15.8	14.1-16.8	13.8	12.6-14.8		
Glasnevin	12.5	12.0-13.4	15.3	15.2-15.4	14.2	13.4-14.6	12.7	11.9-13.4	14.8	14.0-15.7	14.4	14.0-15.7	n.a.	n.a.	14.5	13.7-14.8	n.a.	n.a.	14.5	13.5-15.4	n.a.	n.a.		
Harptree	14.4	13.5-15.9	14.5	12.9-16.3	n.a.	n.a.	n.a.	n.a.	13.6	12.2-15.4	13.9	12.0-17.5	n.a.	n.a.	15.7	15.2-16.2	n.a.	n.a.	15.7	15.2-16.2	13.6	12.4-15.5		
Horizon	n.a.	n.a.	13.8	12.1-14.8	14.1	12.8-15.2	14.3	13.5-15.3	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	14.4	14.0-14.6	n.a.	n.a.	15.4	14.2-16.4	13.6	12.4-15.5		
Outram	13.7	11.9-15.6	n.a.	n.a.	15.1	14.8-15.3	n.a.	n.a.	12.9	11.6-13.6	14.9	11.6-13.6	n.a.	n.a.	14.9	13.6-16.1	n.a.	n.a.	15.4	14.2-16.4	13.6	13.0-14.5		
Woodley	13.4	10.8-15.1	14.1	11.9-15.7	14.2	13.1-14.6	13.8	13.1-14.6	14.8	14.5-15.4	13.7	12.4-14.7	n.a.	n.a.	15.4	14.4-16.3	n.a.	n.a.	14.0	12.5-15.4	14.0	12.5-15.4		
Constance	14.9	13.2-16.6	16.0	15.2-17.1	n.a.	n.a.	n.a.	n.a.	15.5	13.2-16.6	14.5	13.1-16.2	n.a.	n.a.	14.8	14.0-15.9	n.a.	n.a.	16.6	16.5-16.8	n.a.	n.a.		
Hardy	13.4	12.3-15.1	14.6	13.6-15.9	15.1	13.8-16.4	13.1	12.3-13.9	13.9	13.1-15.1	14.9	13.9-17.0	n.a.	n.a.	16.0	14.5-16.8	n.a.	n.a.	15.8	15.1-16.4	14.4	13.3-14.0		
Amulet	13.2	12.0-14.7	15.5	15.0-15.9	14.6	12.9-16.0	13.7	12.8-14.7	13.2	12.8-13.5	13.4	11.8-14.3	n.a.	n.a.	15.8	15.1-16.4	n.a.	n.a.	15.8	15.1-16.4	14.4	13.3-14.0		
Heward	13.6	11.1-15.1	n.a.	n.a.	15.4	15.0-16.0	14.2	13.9-14.4	15.2	14.5-15.7	15.2	14.5-15.7	n.a.	n.a.	15.2	14.2-16.3	n.a.	n.a.	n.a.	n.a.	13.2	11.9-14.2		
Villages																								
Froude	12.9	11.4-13.9	14.9	14.0-15.5	14.6	14.5-14.7	13.6	13.2-14.2	13.6	12.7-14.2	13.6	12.7-14.2	n.a.	n.a.	13.3	13.2-13.4	n.a.	n.a.	n.a.	n.a.	14.6	14.3-15.1		
Beaubier	13.2	12.8-13.8	14.2	14.1-14.3	n.a.	n.a.	n.a.	n.a.	14.1	13.7-14.3	14.8	14.7-14.8	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	15.7	14.8-17.6	n.a.	n.a.		
Knedive	14.8	14.0-15.6	14.3	13.0-15.0	15.2	14.2-15.9	13.6	12.5-15.2	14.0	13.6-14.3	13.6	13.6-14.3	n.a.	n.a.	13.6	13.5-13.7	n.a.	n.a.	13.9	12.6-14.8	13.0	11.3-14.1		
Verwood	13.4	11.9-14.5	15.1	14.2-16.7	14.8	13.2-15.9	14.4	12.4-18.3	14.8	12.2-17.5	15.0	14.0-16.4	n.a.	n.a.	15.2	14.7-15.7	n.a.	n.a.	15.2	14.7-15.7	14.1	11.8-16.1		
Scout Lake	14.1	13.4-15.0	14.9	13.2-15.8	15.7	15.6-15.8	13.3	12.6-14.1	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	12.5	11.5-13.2		
Trossachs	14.3	13.4-16.1	14.2	12.8-15.2	14.1	12.8-15.4	13.7	12.2-15.1	13.3	12.6-13.7	14.3	13.7-15.1	n.a.	n.a.	15.7	13.5-19.7	n.a.	n.a.	15.7	13.5-19.7	13.7	12.0-14.6		
Gladmar	13.8	13.3-14.3	14.5	13.3-15.4	14.9	14.7-15.2	14.2	13.2-14.9	14.0	13.2-14.4	14.3	13.2-15.2	n.a.	n.a.	16.0	15.8-16.2	n.a.	n.a.	16.0	15.8-16.2	14.2	13.7-14.8		

(continued)

TABLE 19. PROTEIN CONTENT OF HARD RED SPRING WHEAT BY DELIVERY POINT, 1962 TO 1969 (concluded)

Delivery Point	1962		1963		1964		1965		1966		1967		1968		1969	
	Aver- age	Range	Aver- age	Range	Aver- age	Range	Aver- age	Range	Aver- age	Range	Aver- age	Range	Aver- age	Range	Aver- age	Range
Benson	13.4	11.9-14.4	15.3	14.8-15.7	14.4	12.9-16.1	13.5	12.0-14.6	14.3	13.5-14.8	14.4	13.8-15.1	15.8	15.5-16.0	14.0	13.3-14.9
Griffin	13.8	13.5-14.1	14.9	14.2-15.7	15.0	13.2-16.2	13.8	12.8-14.7	13.9	12.6-15.8	14.4	13.7-15.0	16.0	15.6-16.5	14.2	12.8-15.8
Forget	13.0	12.0-14.2	15.1	13.8-16.0	14.3	13.0-15.8	13.5	12.4-14.4	14.9	13.1-16.7	14.5	12.9-15.4	15.8	14.9-16.7	14.4	13.8-15.6
Halbrite	13.8	10.7-15.7	14.6	14.0-15.2	14.9	14.7-15.1	13.4	12.9-13.8	14.6	14.3-14.8	15.1	14.7-15.9	14.9	12.2-17.0	13.9	12.5-15.4
Bromhead	15.0	14.5-15.5	14.9	14.2-15.6	15.2	14.1-15.8	14.2	13.5-15.1	15.3	14.8-15.6	13.9	12.2-15.4	15.3	14.0-16.0	14.0	13.5-14.7
Goodwater	14.2	12.5-16.2	14.9	12.9-16.0	15.7	13.3-17.8	13.1	11.7-14.3	14.0	12.6-15.5	14.3	13.6-15.4	15.1	13.7-16.5	13.4	11.2-14.7
Fife Lake	14.9	13.3-17.1	16.4	14.8-17.3	16.6	15.8-17.9	13.9	12.9-15.6	13.0	12.4-13.7	15.5	14.5-16.4	n.a.	n.a.	13.9	13.0-14.9
Oungre	13.5	11.1-15.2	14.8	14.3-15.1	14.7	13.3-16.0	n.a.	n.a.	14.7	14.2-15.2	n.a.	n.a.	14.2	13.0-15.5	13.9	13.4-14.5
Collgate	14.1	12.1-15.9	15.0	14.1-16.3	15.8	14.0-17.5	14.3	13.1-15.7	13.9	12.6-15.2	13.6	12.5-14.6	15.9	14.7-16.5	14.7	13.7-16.9
Tribune	14.5	13.6-15.5	14.7	14.0-15.6	15.1	14.5-15.9	13.4	12.7-14.4	15.8	15.3-16.4	13.5	12.7-14.1	14.8	13.3-16.7	n.a.	n.a.
Viceroy	13.6	12.5-15.5	14.6	13.8-15.7	16.2	15.1-17.5	12.8	12.5-13.0	n.a.	n.a.	14.6	13.7-15.5	16.0	15.1-17.0	15.3	13.9-16.9
Macoun	14.1	12.9-14.8	14.4	13.4-15.4	14.4	13.4-15.8	13.8	13.5-14.1	14.8	14.6-14.9	15.4	14.7-16.1	16.2	14.9-17.6	12.0	11.6-12.5
Big Beaver	13.7	12.9-14.4	15.6	14.6-16.6	15.7	14.8-16.6	13.3	13.0-13.9	14.9	14.0-15.5	n.a.	n.a.	15.9	15.6-16.2	13.9	13.2-14.8
Lake Alma	13.5	12.4-14.1	15.5	15.1-15.9	13.7	11.3-15.4	13.8	13.5-14.3	14.4	13.8-14.9	13.9	13.5-14.3	14.9	13.7-15.8	13.6	12.3-14.6
Minton	12.8	12.3-13.1	13.8	11.8-15.4	14.5	12.9-17.8	13.4	12.3-14.4	13.3	11.4-14.4	14.9	14.0-16.1	15.5	13.4-16.8	13.5	11.9-14.7
Creelman	14.3	13.2-16.1	14.5	13.9-14.8	15.1	14.2-16.6	14.3	13.2-15.5	13.3	13.2-13.4	14.4	13.9-14.6	14.1	13.0-14.7	13.8	13.6-14.3
<i>Towns</i>																
Pangman	12.2	10.1-15.8	14.1	12.8-15.5	14.5	14.2-14.7	13.7	12.7-14.5	13.9	13.7-14.3	13.7	12.2-14.4	15.8	14.2-17.6	13.4	12.8-14.6
Ceylon	12.6	8.6-15.1	14.7	14.1-15.5	14.2	13.5-14.7	n.a.	n.a.	14.2	12.7-15.5	13.3	12.2-13.8	15.0	12.8-16.3	13.5	11.3-14.4
Torquay	14.1	13.9-14.6	14.1	12.1-16.3	14.4	13.0-15.4	13.1	11.3-14.1	14.8	14.0-15.8	14.4	13.1-15.3	16.4	14.1-18.4	13.8	12.7-14.8
Willow Bunch	13.4	11.3-15.2	14.5	13.0-15.6	16.2	15.0-17.6	13.9	12.4-16.2	13.6	12.3-14.7	14.8	13.8-16.1	15.1	14.1-16.8	14.5	12.7-16.5
Coronach	13.6	12.1-15.7	15.6	14.3-16.7	16.2	15.9-16.8	14.2	13.8-14.7	14.6	14.0-15.4	14.2	12.3-15.3	16.4	15.4-18.0	14.1	13.7-14.7
Midale	13.5	12.4-14.6	14.5	13.5-15.2	14.6	13.5-15.5	13.4	12.3-14.1	14.7	14.4-15.1	14.0	12.3-15.8	15.3	13.8-16.7	13.9	12.7-16.1
Ogema	13.8	12.2-15.8	14.9	14.4-15.5	15.5	15.1-16.0	n.a.	n.a.	15.0	14.8-15.1	13.1	12.9-13.3	n.a.	n.a.	n.a.	n.a.
<i>Greater Towns</i>																
Lampman	13.5	12.9-14.3	14.3	13.2-15.2	13.5	13.2-13.7	13.9	13.2-14.4	14.2	13.6-14.7	14.3	14.0-14.7	15.6	15.1-16.7	14.7	13.7-16.1
Bengough	13.8	13.2-14.4	14.5	14.1-15.0	15.5	14.8-15.9	14.1	12.6-16.2	13.7	11.3-15.0	14.2	13.4-15.0	16.4	15.8-17.4	n.a.	n.a.
Stoughton	13.2	11.2-14.3	15.1	14.7-15.8	14.8	13.7-16.7	14.2	13.4-15.2	14.5	14.3-14.6	14.2	13.7-15.2	16.5	16.1-16.9	13.3	12.2-14.5
Radville	14.0	12.7-15.8	14.7	14.0-15.5	15.4	14.2-17.3	13.2	12.3-13.8	14.7	13.9-15.3	14.8	13.9-15.5	15.0	13.5-16.2	13.2	11.1-14.6
<i>Cities</i>																
Estevan	12.9	11.0-14.2	14.9	13.8-15.7	14.4	11.6-15.8	13.8	12.3-17.5	13.9	12.6-15.0	13.9	13.1-14.7	15.8	14.4-17.0	14.1	11.8-15.5
Weyburn	13.4	12.8-14.4	15.0	14.2-15.9	15.0	14.3-16.0	13.3	12.4-14.6	14.0	13.6-14.3	14.6	13.3-16.1	16.4	14.7-17.6	13.6	12.0-15.0
Study Area Total ^a	13.8	8.6-17.1	14.8	11.8-17.3	14.9	10.7-18.3	13.7	11.3-18.3	14.2	10.7-17.5	14.4	11.8-17.0	15.5	12.2-19.7	13.8	11.1-16.9
Provincial Total	14.2	8.6-18.6	14.6	8.5-19.2	15.3	10.4-19.3	13.7	9.5-18.9	13.3	9.5-17.7	14.1	9.0-19.1	14.2	9.5-19.7	14.0	9.1-19.3

n.a. - Not available.

^aAverage weighted by number of samples.

Source: Grain Research Laboratory, Board of Grain Commissioners, Winnipeg.

Prairie Farm Assistance Act Payments

Figure 4 shows the number of times during the past 31 years PFAA payments were made to grain farmers in each township because of crop failure. A value of 12, for example does not mean that all farmers in that township received payments in 12 years out of 31 but that some farmers did. Thus, the map gives an indication of crop failure frequency in the study area.

The least number of payments were made near Weyburn where farmers in one township received payments only 6 times. Grain producers in several other townships near Creelman and Lampman had 7 payments. The greatest number of years in which payments were made was 21 at Minton and 20 in the rough terrain region west of Minton.

Farm Size and Land Tenure

The distribution of grain farm sizes in the Weyburn study area is shown in Table 20. Class sizes are arranged in intervals of 159 acres such that 160, or a multiple of it, falls at the midpoint of each class size. More detailed statistics relating to farm sizes, grouped by delivery point, are given in Table 21 for crop years 1962-63 and 1969-70.

The total number of farms declined by 757 from 5,561 to 4,804 or 13.6 per cent. In 1962-63 the size group containing the most number of farms was 401-560 acres. By 1969-70 the next largest group, namely, 561-720 acres contained the most farms. This change corresponds to the increase in modal size from 480 acres to 640.

The mean farm size increased by 18.0 per cent from 649 acres to 766 acres (Table 21). The mean increased at every delivery point except Froude where the average declined 58 acres and the mode declined from 640 acres to 480.

The standard deviation is a statistical concept used to measure the variability of data. As the variability of farm sizes above and below the mean increases so does the standard deviation. Hence, since the standard deviation in the study area in 1969-70 was greater (517 acres) than in 1962-63 (407 acres), it must be concluded that there was greater variability of farm sizes in 1969-70 than in 1962-63. Examination of Table 20 bears this out.

A further interpretation of the standard deviation is that the interval between one standard deviation below the mean to one standard deviation above the mean usually includes about 67 per cent of the observations.¹ For example, in 1969-70 the number of farms in the interval 249 acres (766 minus 517) to 1,283 acres (766 plus 517) should account for about two-thirds of the total 4,804 farms. Two standard deviations above and below the mean ($766 \pm 1,034$) would account for about 95 per cent of all farms. It should be noted that the standard deviation values at most delivery points are high in relation to the means indicating a wide range of farm sizes.

In the study area there was virtually no change in the median farm size. Over the seven years there were still an equal number of farms above and below 641 or 642 acres. Considering that the modal size as well as the mean size increased we can conclude that the number of large farms increased relative to the number of small farms and again Table 20 bears this out.

With respect to land tenure the general trend has been toward a greater percentage of land being owned by farm operators rather than rented (Table 22). The per cent of land owned dropped at only six delivery points between 1962-63 and 1969-70: Ritchie, Bryant, Grassdale, Hardy, Halbrite

¹The assumption underlying this interpretation is that the number of observations is sufficiently large and that their distribution is normal.

and Goodwater. Woodley showed the largest increase, from 66.3 to 91.7 per cent. In total for the study area the per cent of land owned increased from 68.4 to 77.2 per cent.

TABLE 20. DISTRIBUTION OF GRAIN FARM SIZES IN THE STUDY AREA, CROP YEARS 1962-63 AND 1969-70

Size Group (acres)	1962-63		1969-70	
	Number of farms	Per cent of Total	Number of farms	Per cent of Total
1 - 240	516	9.3	446	9.3
241 - 400	1,046	18.8	721	15.0
401 - 560	1,103	19.8	718	15.0
561 - 720	1,073	19.3	785	16.3
721 - 880	674	12.1	558	11.6
881 - 1,040	468	8.4	524	10.9
1,041 - 1,200	248	4.5	322	6.7
1,201 - 1,360	153	2.7	252	5.2
1,361 - 1,520	95	1.7	143	3.0
1,521 - 1,680	65	1.2	97	2.0
1,681 - 1,840	47	0.9	82	1.7
1,841 - 2,000	28	0.5	45	0.9
2,001 - 2,160	11	0.2	32	0.7
2,161 - 2,320	7	0.1	18	0.4
2,321 - 2,480	2	-	16	0.3
2,481 - 2,640	5	0.1	9	0.2
2,641 - 2,800	3	0.1	12	0.3
2,801 and over	17	0.3	24	0.5
Study Area Total	5,561	100.0	4,804	100.0

Source: Delivery Permit Books, Canadian Wheat Board, Winnipeg.

TABLE 21. AVERAGE ACREAGE OF GRAIN FARMS IN THE STUDY AREA, 1962-63 AND 1969-70

	1962-63	1969-70
<i>Too Small to Classify</i>		
Axford		
Number of farms	10	
Mean size	806 acres	
Standard deviation	448 acres	
Maximum size	1,440 acres	Closed
Minimum size	80 acres	
Median size	800 acres	
Modal size(s)	640, 960 acres	
Modal size group(s)	561-720, 881-1,040, 1,201-1,360 acres	
Gye		
Number of farms	31	
Mean size	586 acres	
Standard deviation	354 acres	
Maximum size	1,383 acres	Closed
Minimum size	160 acres	
Median size	480 acres	
Modal size(s)	480 acres	
Modal size group(s)	401-560 acres	
Abbott		
Number of farms	21	
Mean size	686 acres	
Standard deviation	461 acres	
Maximum size	1,920 acres	Closed
Minimum size	160 acres	
Median size	640 acres	
Modal size(s)	640 acres	
Modal size group(s)	561-720 acres	
Brooking		
Number of farms	29	
Mean size	606 acres	
Standard deviation	304 acres	
Maximum size	1,120 acres	Closed
Minimum size	156 acres	
Median size	555 acres	
Modal size(s)	480, 800, 960 acres	
Modal size group(s)	401-560 acres	

(continued)

TABLE 21. AVERAGE ACREAGE OF GRAIN FARMS IN THE STUDY AREA, 1962-63 AND 1969-70 (continued)

	1962-63	1969-70
Blewett		
Number of farms	14	
Mean size	646 acres	
Standard deviation	408 acres	
Maximum size	1,760 acres	Closed
Minimum size	160 acres	
Median size	560 acres	
Modal size(s)	480 acres	
Modal size group(s)	401-560 acres	
Blooming		
Number of farms	7	
Mean size	617 acres	
Standard deviation	386 acres	
Maximum size	1,280 acres	Closed
Minimum size	160 acres	
Median size	480 acres	
Modal size(s)	480 acres	
Modal size group(s)	401-560 acres	
Caxton		
Number of farms	17	
Mean size	624 acres	
Standard deviation	318 acres	
Maximum size	1,440 acres	Closed
Minimum size	320 acres	
Median size	500 acres	
Modal size(s)	320 acres	
Modal size group(s)	401-560 acres	
Buffalo Gap		
Number of farms	18	
Mean size	721 acres	
Standard deviation	368 acres	
Maximum size	1,760 acres	Closed
Minimum size	320 acres	
Median size	720 acres	
Modal size(s)	480, 640 acres	
Modal size group(s)	401-560, 561-720 acres	

(continued)

TABLE 21. AVERAGE ACREAGE OF GRAIN FARMS IN THE STUDY AREA, 1962-63 AND 1969-70 (continued)

	1962-63	1969-70
Clearfield		
Number of farms	15	8
Mean size	869 acres	1,112 acres
Standard deviation	352 acres	564 acres
Maximum size	1,440 acres	1,822 acres
Minimum size	345 acres	160 acres
Median size	960 acres	1,200 acres
Modal size(s)	480, 960 acres	-
Modal size group(s)	401-560, 881-1,040 1,041-1,200 acres	-
Innes		
Number of farms	18	21
Mean size	756 acres	895 acres
Standard deviation	551 acres	522 acres
Maximum size	2,560 acres	2,560 acres
Minimum size	35 acres	160 acres
Median size	710 acres	800 acres
Modal size(s)	320 acres	320 acres
Modal size group(s)	241-400, 561-720 acres	721-880 acres
Ritchie		
Number of farms	25	19
Mean size	592 acres	739 acres
Standard deviation	179 acres	297 acres
Maximum size	960 acres	1,440 acres
Minimum size	160 acres	320 acres
Median size	640 acres	640 acres
Modal size(s)	640 acres	800 acres
Modal size group(s)	561-720 acres	561-720 acres
Roncott		
Number of farms	47	34
Mean size	532 acres	669 acres
Standard deviation	318 acres	416 acres
Maximum size	1,410 acres	2,080 acres
Minimum size	80 acres	60 acres
Median size	480 acres	709 acres
Modal size(s)	320 acres	480 acres
Modal size group(s)	241-400 acres	401-560 acres

(continued)

TABLE 21. AVERAGE ACREAGE OF GRAIN FARMS IN THE STUDY AREA, 1962-63 AND 1969-70 (continued)

	1962-63	1960-70
Bryant		
Number of farms	33	19
Mean size	555 acres	762 acres
Standard deviation	275 acres	355 acres
Maximum size	1,120 acres	1,440 acres
Minimum size	160 acres	320 acres
Median size	480 acres	640 acres
Modal size(s)	480 acres	480 acres
Modal size group(s)	401-560 acres	401-560 acres
Union Jack		
Number of farms	25	16
Mean size	553 acres	648 acres
Standard deviation	295 acres	311 acres
Maximum size	1,272 acres	1,120 acres
Minimum size	156 acres	156 acres
Median size	480 acres	655 acres
Modal size(s)	320 acres	640 acres
Modal size group(s)	401-560 acres	561-720 acres
Hoffer		
Number of farms	21	25
Mean size	880 acres	907 acres
Standard deviation	370 acres	400 acres
Maximum size	1,440 acres	1,600 acres
Minimum size	160 acres	160 acres
Median size	800 acres	800 acres
Modal size(s)	480 acres	640 acres
Modal size group(s)	401-560 acres	561-720 acres
Viewfield		
Number of farms	21	19
Mean size	699 acres	796 acres
Standard deviation	338 acres	349 acres
Maximum size	1,376 acres	1,440 acres
Minimum size	160 acres	160 acres
Median size	640 acres	800 acres
Modal size(s)	640, 800 acres	480, 1,120 acres
Modal size group(s)	561-720 acres	721-880 acres

(continued)

TABLE 21. AVERAGE ACREAGE OF GRAIN FARMS IN THE STUDY AREA, 1962-63 AND 1969-70 (continued)

	1962-63	1969-70
<i>Cullen</i>		
Number of farms	29	27
Mean size	579 acres	610 acres
Standard deviation	294 acres	311 acres
Maximum size	1,280 acres	1,280 acres
Minimum size	160 acres	160 acres
Median size	480 acres	640 acres
Modal size(s)	480 acres	160, 480, 800, 960 acres
Modal size group(s)	401-560 acres	1-240, 401-560, 721-880, 881-1,040 acres
<i>Hume</i>		
Number of farms	29	25
Mean size	594 acres	682 acres
Standard deviation	343 acres	447 acres
Maximum size	1,920 acres	1,760 acres
Minimum size	160 acres	160 acres
Median size	480 acres	640 acres
Modal size(s)	640 acres	480 acres
Modal size group(s)	561-720 acres	401-560 acres
<i>Hitchcock</i>		
Number of farms	54	40
Mean size	542 acres	732 acres
Standard deviation	305 acres	492 acres
Maximum size	1,575 acres	2,105 acres
Minimum size	160 acres	153 acres
Median size	520 acres	635 acres
Modal size(s)	320 acres	320 acres
Modal size group(s)	241-400 acres	241-400 acres
<i>Hamlets</i>		
<i>Grassdale</i>		
Number of farms	33	26
Mean size	650 acres	745 acres
Standard deviation	319 acres	370 acres
Maximum size	1,600 acres	1,600 acres
Minimum size	160 acres	160 acres
Median size	640 acres	775 acres
Modal size(s)	320, 640, 960 acres	960 acres
Modal size group(s)	561-720 acres	881-1,040 acres

(continued)

TABLE 21. AVERAGE ACREAGE OF GRAIN FARMS IN THE STUDY AREA, 1962-63 AND 1969-70 (continued)

	1962-63	1969-70
Talmage		
Number of farms	65	60
Mean size	656 acres	737 acres
Standard deviation	322 acres	408 acres
Maximum size	1,440 acres	1,780 acres
Minimum size	160 acres	160 acres
Median size	640 acres	720 acres
Modal size(s)	640 acres	640 acres
Modal size group(s)	561-720 acres	561-720 acres
Huntoon		
Number of farms	45	38
Mean size	688 acres	763 acres
Standard deviation	470 acres	510 acres
Maximum size	2,880 acres	2,720 acres
Minimum size	160 acres	160 acres
Median size	640 acres	648 acres
Modal size(s)	160, 640 acres	320 acres
Modal size group(s)	561-720 acres	241-400 acres
Ralph		
Number of farms	30	20
Mean size	781 acres	788 acres
Standard deviation	645 acres	500 acres
Maximum size	3,740 acres	2,140 acres
Minimum size	160 acres	160 acres
Median size	713 acres	665 acres
Modal size(s)	320 acres	640 acres
Modal size group(s)	561-720 acres	561-720 acres
East Poplar		
Number of farms	58	51
Mean size	710 acres	799 acres
Standard deviation	567 acres	706 acres
Maximum size	3,280 acres	3,040 acres
Minimum size	73 acres	150 acres
Median size	600 acres	630 acres
Modal size(s)	320 acres	320 acres
Modal size group(s)	401-560 acres	241-400 acres

(continued)

TABLE 21. AVERAGE ACREAGE OF GRAIN FARMS IN THE STUDY AREA, 1962-63 AND 1969-70 (continued)

	1962-63	1969-70
Hart		
Number of farms	50	39
Mean size	623 acres	732 acres
Standard deviation	276 acres	397 acres
Maximum size	1,280 acres	1,760 acres
Minimum size	160 acres	160 acres
Median size	720 acres	640 acres
Modal size(s)	640 acres	320, 640 acres
Modal size group(s)	561-720 acres	561-720 acres
Ratcliffe		
Number of farms	58	42
Mean size	625 acres	726 acres
Standard deviation	311 acres	412 acres
Maximum size	1,440 acres	1,760 acres
Minimum size	160 acres	160 acres
Median size	560 acres	693 acres
Modal size(s)	480 acres	480 acres
Modal size group(s)	401-560 acres	401-560 acres
Glasnevin		
Number of farms	71	53
Mean size	584 acres	689 acres
Standard deviation	283 acres	501 acres
Maximum size	1,600 acres	2,560 acres
Minimum size	160 acres	160 acres
Median size	620 acres	620 acres
Modal size(s)	640 acres	320 acres
Modal size group(s)	561-720 acres	241-400 acres
Harptree		
Number of farms	66	46
Mean size	628 acres	828 acres
Standard deviation	332 acres	579 acres
Maximum size	1,600 acres	2,880 acres
Minimum size	160 acres	160 acres
Median size	507 acres	690 acres
Modal size(s)	480 acres	320 acres
Modal size group(s)	401-560, 561-720 acres	241-400 acres

(continued)

TABLE 21. AVERAGE ACREAGE OF GRAIN FARMS IN THE STUDY AREA, 1962-63 AND 1969-70 (continued)

	1962-63	1969-70
Horizon		
Number of farms	89	58
Mean size	573 acres	839 acres
Standard deviation	314 acres	448 acres
Maximum size	1,920 acres	2,390 acres
Minimum size	130 acres	160 acres
Median size	480 acres	846 acres
Modal size(s)	320, 640 acres	640 acres
Modal size group(s)	561-720 acres	561-720 acres
Outram		
Number of farms	101	78
Mean size	844 acres	1,095 acres
Standard deviation	810 acres	1,065 acres
Maximum size	5,920 acres	6,764 acres
Minimum size	160 acres	160 acres
Median size	640 acres	840 acres
Modal size(s)	320 acres	480 acres
Modal size group(s)	241-400 acres	401-560 acres
Woodley		
Number of farms	36	21
Mean size	704 acres	922 acres
Standard deviation	403 acres	706 acres
Maximum size	1,920 acres	3,520 acres
Minimum size	160 acres	320 acres
Median size	680 acres	640 acres
Modal size(s)	800 acres	800 acres
Modal size group(s)	561-720 acres	561-720, 721-880 acres
Constance		
Number of farms	70	45
Mean size	696 acres	836 acres
Standard deviation	446 acres	544 acres
Maximum size	2,400 acres	2,560 acres
Minimum size	160 acres	57 acres
Median size	606 acres	640 acres
Modal size(s)	480 acres	480 acres
Modal size group(s)	241-400 acres	401-560 acres

(continued)

TABLE 21. AVERAGE ACREAGE OF GRAIN FARMS IN THE STUDY AREA, 1962-63 AND 1969-70 (continued)

	1962-63	1969-70
Hardy		
Number of farms	79	67
Mean size	586 acres	648 acres
Standard deviation	283 acres	392 acres
Maximum size	1,440 acres	2,060 acres
Minimum size	160 acres	160 acres
Median size	480 acres	640 acres
Modal size(s)	480 acres	320, 640 acres
Modal size group(s)	401-560 acres	561-720 acres
Amulet		
Number of farms	48	33
Mean size	615 acres	797 acres
Standard deviation	313 acres	404 acres
Maximum size	1,440 acres	1,920 acres
Minimum size	160 acres	160 acres
Median size	600 acres	800 acres
Modal size(s)	480 acres	480 acres
Modal size group(s)	401-560 acres	401-560 1,041-1,200 acres
Heward		
Number of farms	52	43
Mean size	684 acres	822 acres
Standard deviation	426 acres	582 acres
Maximum size	2,720 acres	3,570 acres
Minimum size	160 acres	90 acres
Median size	715 acres	800 acres
Modal size(s)	640 acres	960 acres
Modal size group(s)	561-720 acres	881-1,040 acres
Villages		
Froude		
Number of farms	33	25
Mean size	785 acres	727 acres
Standard deviation	448 acres	558 acres
Maximum size	2,240 acres	2,400 acres
Minimum size	160 acres	160 acres
Median size	640 acres	480 acres
Modal size(s)	640 acres	480 acres
Modal size group(s)	561-720 acres	401-560 acres

(continued)

TABLE 21. AVERAGE ACREAGE OF GRAIN FARMS IN THE STUDY AREA, 1962-63 AND 1969-70 (continued)

	1962-63	1969-70
Beaubier		
Number of farms	40	36
Mean size	758 acres	890 acres
Standard deviation	418 acres	388 acres
Maximum size	2,230 acres	1,920 acres
Minimum size	160 acres	160 acres
Median size	880 acres	838 acres
Modal size(s)	800 acres	800, 960 acres
Modal size group(s)	721-880 acres	721-880 acres
Khedive		
Number of farms	77	85
Mean size	607 acres	711 acres
Standard deviation	342 acres	401 acres
Maximum size	1,489 acres	2,080 acres
Minimum size	160 acres	160 acres
Median size	480 acres	640 acres
Modal size(s)	320, 480 acres	480 acres
Modal size group(s)	401-560 acres	401-560 acres
Verwood		
Number of farms	86	73
Mean size	588 acres	721 acres
Standard deviation	299 acres	403 acres
Maximum size	1,600 acres	1,950 acres
Minimum size	150 acres	150 acres
Median size	521 acres	640 acres
Modal size(s)	480 acres	480 acres
Modal size group(s)	401-560 acres	401-560 acres
Scout Lake		
Number of farms	77	51
Mean size	697 acres	844 acres
Standard deviation	360 acres	489 acres
Maximum size	1,760 acres	1,920 acres
Minimum size	160 acres	160 acres
Median size	640 acres	960 acres
Modal size(s)	320 acres	320, 960 acres
Modal size group(s)	241-400 acres	881-1,040 acres

(continued)

TABLE 21. AVERAGE ACREAGE OF GRAIN FARMS IN THE STUDY AREA, 1962-63 AND 1969-70 (continued)

	1962-63	1969-70
Trossachs		
Number of farms	68	52
Mean size	638 acres	857 acres
Standard deviation	311 acres	475 acres
Maximum size	1,592 acres	2,704 acres
Minimum size	150 acres	160 acres
Median size	717 acres	855 acres
Modal size(s)	640 acres	640 acres
Modal size group(s)	561-720 acres	561-720 acres
Gladmar		
Number of farms	98	76
Mean size	656 acres	790 acres
Standard deviation	371 acres	460 acres
Maximum size	1,920 acres	2,400 acres
Minimum size	7 acres	105 acres
Median size	668 acres	840 acres
Modal size(s)	800 acres	800 acres
Modal size group(s)	721-880 acres	721-880 acres
Benson		
Number of farms	72	65
Mean size	759 acres	890 acres
Standard deviation	544 acres	523 acres
Maximum size	4,020 acres	2,720 acres
Minimum size	160 acres	160 acres
Median size	661 acres	800 acres
Modal size(s)	640, 800 acres	640 acres
Modal size group(s)	561-720 acres	561-720 acres
Griffin		
Number of farms	115	109
Mean size	697 acres	727 acres
Standard deviation	364 acres	418 acres
Maximum size	1,920 acres	2,480 acres
Minimum size	80 acres	160 acres
Median size	640 acres	640 acres
Modal size(s)	640 acres	640 acres
Modal size group(s)	561-720 acres	561-720 acres

(continued)

TABLE 21. AVERAGE ACREAGE OF GRAIN FARMS IN THE STUDY AREA, 1962-63 AND 1969-70 (continued)

	1962-63	1969-70
Forget		
Number of farms	80	57
Mean size	658 acres	767 acres
Standard deviation	351 acres	387 acres
Maximum size	1,920 acres	1,750 acres
Minimum size	145 acres	160 acres
Median size	648 acres	669 acres
Modal size(s)	480 acres	320 acres
Modal size group(s)	401-560 acres	241-400, 561-720 acres
Halbrite		
Number of farms	69	55
Mean size	606 acres	798 acres
Standard deviation	419 acres	727 acres
Maximum size	3,015 acres	4,940 acres
Minimum size	80 acres	80 acres
Median size	480 acres	640 acres
Modal size(s)	320 acres	640 acres
Modal size group(s)	401-560 acres	561-720 acres
Bromhead		
Number of farms	88	92
Mean size	713 acres	723 acres
Standard deviation	349 acres	365 acres
Maximum size	2,080 acres	1,760 acres
Minimum size	153 acres	160 acres
Median size	660 acres	695 acres
Modal size(s)	640 acres	640 acres
Modal size group(s)	561-720 acres	561-720 acres
Goodwater		
Number of farms	66	47
Mean size	680 acres	839 acres
Standard deviation	386 acres	458 acres
Maximum size	1,974 acres	1,974 acres
Minimum size	160 acres	160 acres
Median size	720 acres	800 acres
Modal size(s)	320 acres	960 acres
Modal size group(s)	241-400 acres	881-1,040 acres

(continued)

TABLE 21. AVERAGE ACREAGE OF GRAIN FARMS IN THE STUDY AREA, 1962-63 AND 1969-70 (continued)

	1962-63	1969-70
Fife Lake		
Number of farms	104	85
Mean size	611 acres	780 acres
Standard deviation	342 acres	505 acres
Maximum size	1,920 acres	2,560 acres
Minimum size	160 acres	160 acres
Median size	560 acres	640 acres
Modal size(s)	320 acres	640 acres
Modal size group(s)	241-400 acres	561-720 acres
Oungre		
Number of farms	41	37
Mean size	972 acres	994 acres
Standard deviation	757 acres	713 acres
Maximum size	4,480 acres	4,000 acres
Minimum size	160 acres	160 acres
Median size	800 acres	800 acres
Modal size(s)	640 acres	800 acres
Modal size group(s)	561-720 acres	721-880 acres
Colgate		
Number of farms	100	75
Mean size	575 acres	720 acres
Standard deviation	291 acres	384 acres
Maximum size	1,440 acres	2,080 acres
Minimum size	160 acres	160 acres
Median size	486 acres	640 acres
Modal size(s)	320 acres	800 acres
Modal size group(s)	241-400 acres	561-720 acres
Tribune		
Number of farms	138	149
Mean size	659 acres	660 acres
Standard deviation	547 acres	429 acres
Maximum size	4,640 acres	2,400 acres
Minimum size	12 acres	12 acres
Median size	522 acres	640 acres
Modal size(s)	480 acres	160, 480 acres
Modal size group(s)	401-560 acres	1-240 acres

(continued)

TABLE 21. AVERAGE ACREAGE OF GRAIN FARMS IN THE STUDY AREA, 1962-63 AND 1969-70 (continued)

	1962-63	1969-70
Viceroy		
Number of farms	103	90
Mean size	518 acres	657 acres
Standard deviation	293 acres	385 acres
Maximum size	1,760 acres	1,790 acres
Minimum size	158 acres	160 acres
Median size	480 acres	481 acres
Modal size(s)	320 acres	320 acres
Modal size group(s)	241-400 acres	241-400 401-560 acres
Macoun		
Number of farms	108	99
Mean size	626 acres	768 acres
Standard deviation	378 acres	590 acres
Maximum size	2,560 acres	3,860 acres
Minimum size	160 acres	158 acres
Median size	490 acres	640 acres
Modal size(s)	320 acres	320 acres
Modal size group(s)	241-400 acres	241-400 acres
Big Beaver		
Number of farms	108	117
Mean size	821 acres	846 acres
Standard deviation	500 acres	553 acres
Maximum size	3,200 acres	2,720 acres
Minimum size	160 acres	160 acres
Median size	880 acres	800 acres
Modal size(s)	640, 800 acres	640 acres
Modal size group(s)	561-720 acres	561-720 acres
Lake Alma		
Number of farms	119	103
Mean size	617 acres	765 acres
Standard deviation	281 acres	429 acres
Maximum size	1,600 acres	2,080 acres
Minimum size	120 acres	120 acres
Median size	640 acres	800 acres
Modal size(s)	480 acres	320 acres
Modal size group(s)	401-560 acres	241-400 acres

(continued)

TABLE 21. AVERAGE ACREAGE OF GRAIN FARMS IN THE STUDY AREA, 1962-63 AND 1969-70 (continued)

	1962-63	1969-70
Minton		
Number of farms	134	107
Mean size	610 acres	809 acres
Standard deviation	400 acres	480 acres
Maximum size	1,920 acres	2,560 acres
Minimum size	160 acres	80 acres
Median size	480 acres	800 acres
Modal size(s)	320 acres	640 acres
Modal size group(s)	241-400 acres	561-720 acres
Creelman		
Number of farms	112	103
Mean size	728 acres	790 acres
Standard deviation	440 acres	462 acres
Maximum size	2,160 acres	1,939 acres
Minimum size	49 acres	160 acres
Median size	680 acres	797 acres
Modal size(s)	320 acres	320 acres
Modal size group(s)	241-320 acres	241-400 acres
Towns		
Pangman		
Number of farms	86	78
Mean size	665 acres	819 acres
Standard deviation	387 acres	454 acres
Maximum size	2,080 acres	2,080 acres
Minimum size	154 acres	154 acres
Median size	633 acres	730 acres
Modal size(s)	320 acres	320 acres
Modal size group(s)	401-560 acres	561-720 acres
Ceylon		
Number of farms	170	149
Mean size	547 acres	628 acres
Standard deviation	261 acres	326 acres
Maximum size	1,600 acres	1,920 acres
Minimum size	160 acres	38 acres
Median size	515 acres	640 acres
Modal size(s)	480 acres	640 acres
Modal size group(s)	401-560 acres	561-720 acres

(continued)

TABLE 21. AVERAGE ACREAGE OF GRAIN FARMS IN THE STUDY AREA, 1962-63 AND 1969-70 (continued)

	1962-63	1969-70
Torquay		
Number of farms	160	132
Mean size	690 acres	855 acres
Standard deviation	496 acres	830 acres
Maximum size	4,160 acres	7,840 acres
Minimum size	150 acres	35 acres
Median size	657 acres	670 acres
Modal size(s)	480 acres	480 acres
Modal size group(s)	401-560 acres	401-560 acres
Willow Bunch		
Number of farms	126	134
Mean size	594 acres	716 acres
Standard deviation	347 acres	434 acres
Maximum size	1,920 acres	2,080 acres
Minimum size	50 acres	160 acres
Median size	486 acres	670 acres
Modal size(s)	480 acres	480 acres
Modal size group(s)	401-560 acres	561-720 acres
Coronach		
Number of farms	114	104
Mean size	627 acres	830 acres
Standard deviation	401 acres	536 acres
Maximum size	1,760 acres	2,400 acres
Minimum size	160 acres	144 acres
Median size	520 acres	790 acres
Modal size(s)	160, 320 acres	320 acres
Modal size group(s)	241-400 acres	241-400 acres
Midale		
Number of farms	149	137
Mean size	669 acres	756 acres
Standard deviation	544 acres	647 acres
Maximum size	5,190 acres	5,600 acres
Minimum size	80 acres	123 acres
Median size	600 acres	640 acres
Modal size(s)	320 acres	320 acres
Modal size group(s)	241-400 acres	241-400 acres

(continued)

TABLE 21. AVERAGE ACREAGE OF GRAIN FARMS IN THE STUDY AREA, 1962-63 AND 1969-70 (continued)

	1962-63	1969-70
<i>Ogema</i>		
Number of farms	99	100
Mean size	572 acres	693 acres
Standard deviation	316 acres	403 acres
Maximum size	1,600 acres	2,400 acres
Minimum size	160 acres	160 acres
Median size	510 acres	715 acres
Modal size(s)	320 acres	640 acres
Modal size group(s)	241-400 acres	561-720 acres
<i>Greater Towns</i>		
<i>Lampman</i>		
Number of farms	118	128
Mean size	696 acres	857 acres
Standard deviation	423 acres	597 acres
Maximum size	2,080 acres	2,720 acres
Minimum size	160 acres	30 acres
Median size	650 acres	665 acres
Modal size(s)	480 acres	320 acres
Modal size group(s)	401-560 acres	241-400 561-720 acres
<i>Bengough</i>		
Number of farms	206	180
Mean size	614 acres	701 acres
Standard deviation	341 acres	412 acres
Maximum size	2,240 acres	2,240 acres
Minimum size	151 acres	45 acres
Median size	558 acres	717 acres
Modal size(s)	480 acres	480 acres
Modal size group(s)	401-560 acres	241-400 acres
<i>Stoughton</i>		
Number of farms	126	129
Mean size	640 acres	834 acres
Standard deviation	355 acres	598 acres
Maximum size	2,240 acres	4,480 acres
Minimum size	160 acres	160 acres
Median size	648 acres	640 acres
Modal size(s)	640 acres	640 acres
Modal size group(s)	561-720 acres	561-720 acres

(continued)

TABLE 21. AVERAGE ACREAGE OF GRAIN FARMS IN THE STUDY AREA, 1962-63 AND 1969-70 (concluded)

	1962-63	1969-70
<i>Radville</i>		
Number of farms	249	250
Mean size	674 acres	797 acres
Standard deviation	356 acres	483 acres
Maximum size	1,760 acres	2,290 acres
Minimum size	158 acres	45 acres
Median size	640 acres	654 acres
Modal size(s)	320 acres	480 acres
Modal size group(s)	401-560 acres	561-720 acres
<i>Cities</i>		
<i>Estevan</i>		
Number of farms	223	211
Mean size	609 acres	701 acres
Standard deviation	408 acres	550 acres
Maximum size	3,200 acres	4,160 acres
Minimum size	4 acres	40 acres
Median size	480 acres	640 acres
Modal size(s)	320 acres	320 acres
Modal size group(s)	401-560 acres	401-560 acres
<i>Weyburn</i>		
Number of farms	284	311
Mean size	640 acres	693 acres
Standard deviation	427 acres	475 acres
Maximum size	2,825 acres	3,450 acres
Minimum size	23 acres	42 acres
Median size	484 acres	640 acres
Modal size(s)	480 acres	320 acres
Modal size group(s)	401-560 acres	561-720 acres
<i>Study Area Total</i>		
Number of farms	5,561	4,804
Mean size	649 acres	766 acres
Standard deviation	407 acres	517 acres
Maximum size	5,920 acres	7,840 acres
Minimum size	4 acres	12 acres
Median size	641 acres	642 acres
Modal size(s)	480 acres	640 acres
Modal size group(s)	401-560 acres	561-720 acres

Source: Delivery Permit Books, Canadian Wheat Board, Winnipeg.

TABLE 22. LAND TENURE OF GRAIN FARMS IN THE STUDY AREA, 1962-63 AND 1969-70

Delivery Point	Per Cent Owned		Per Cent Rented	
	1962-63	1969-70	1962-63	1969-70
<i>Too Small to Classify</i>				
Axford	71.7	Closed	28.3	Closed
Gye	91.2	Closed	8.8	Closed
Abbott	82.2	Closed	17.8	Closed
Brooking	65.4	Closed	34.6	Closed
Blewett	61.1	Closed	38.9	Closed
Blooming	81.5	Closed	18.5	Closed
Caxton	53.4	Closed	46.6	Closed
Buffalo Gap	64.2	Closed	35.8	Closed
Clearfield	71.6	74.6	28.4	25.4
Innes	77.7	82.6	22.3	17.4
Ritchie	79.8	79.5	20.2	20.5
Roncott	78.8	80.0	21.2	20.0
Bryant	72.1	70.2	27.9	29.8
Union Jack	43.8	67.2	56.2	32.8
Hoffer	62.8	82.5	37.2	17.5
Viewfield	63.2	73.4	36.8	26.6
Cullen	57.1	61.3	42.9	38.7
Hume	56.6	72.5	43.4	27.5
Hitchcock	65.8	74.5	34.2	25.5
<i>Hamlets</i>				
Grassdale	55.9	54.5	44.1	45.5
Talmage	61.2	63.4	38.8	36.6
Huntoon	58.1	72.7	41.9	27.3
Ralph	71.0	79.8	29.0	20.2
East Poplar	85.3	90.8	14.7	9.2
Hart	72.9	78.9	27.1	21.1
Ratcliffe	67.9	76.9	32.1	23.1
Glasnevin	62.6	76.4	37.4	23.6
Harpree	74.6	92.4	25.4	7.6
Horizon	80.2	81.0	19.8	19.0
Outram	69.5	80.6	30.5	19.4
Woodley	66.3	91.7	33.7	8.3
Constance	77.3	87.7	22.7	12.3
Hardy	77.9	76.4	22.1	23.6
Amulet	75.9	83.7	24.1	16.3
Heward	72.0	78.1	28.0	21.9
<i>Villages</i>				
Froude	63.0	74.0	37.0	26.0
Beaubier	71.5	78.5	28.5	21.5
Khedive	65.9	77.0	34.1	23.0

(continued)

TABLE 22. LAND TENURE OF GRAIN FARMS IN THE STUDY AREA, 1962-63 AND 1969-70 (concluded)

Delivery Point	Per Cent Owned		Per Cent Rented	
	1962-63	1969-70	1962-63	1969-70
Verwood	69.8	90.4	30.2	9.6
Scout Lake	72.4	78.3	27.6	21.7
Trossachs	77.3	82.7	22.7	17.3
Gladmar	75.5	77.0	24.5	23.0
Benson	56.6	74.6	43.4	25.4
Griffin	54.6	71.1	45.4	28.9
Forget	58.7	70.6	41.3	29.4
Halbrite	64.0	57.5	36.0	42.5
Bromhead	67.2	76.6	32.8	23.4
Goodwater	64.0	63.4	36.0	36.6
Fife Lake	71.7	81.4	28.3	18.6
Oungre	67.6	75.5	32.4	24.5
Colgate	71.7	73.2	28.3	26.8
Tribune	68.1	76.6	31.9	23.4
Viceroy	81.4	85.1	18.6	14.9
Macoun	62.6	74.2	37.4	25.8
Big Beaver	72.8	82.7	27.2	17.3
Lake Alma	70.6	81.8	29.4	18.2
Minton	72.8	81.8	27.2	18.2
Creelman	70.3	76.0	29.7	24.0
<i>Towns</i>				
Pangman	71.0	73.6	29.0	26.4
Ceylon	75.1	86.7	24.9	13.3
Torquay	66.0	76.6	34.0	23.4
Willow Bunch	79.9	83.4	20.1	16.6
Coronach	69.1	77.5	30.9	22.5
Midale	59.2	69.5	40.8	30.5
Ogema	71.4	76.2	28.6	23.8
<i>Greater Towns</i>				
Lampman	53.8	67.5	46.2	32.5
Bengough	73.9	84.3	26.1	15.7
Stoughton	71.3	78.3	28.7	21.7
Radville	76.2	85.7	23.8	14.3
<i>Cities</i>				
Estevan	63.9	75.7	36.1	24.3
Weyburn	59.9	65.6	40.1	34.4
Study Area Total	68.4	77.2	31.6	22.8

Source: Delivery Permit Books, Canadian Wheat Board, Winnipeg.

PART III

GRAIN MARKETING AND HANDLING CHARACTERISTICS

Farm Operators' Choice of Delivery Point

In 1966 the Canada Department of Energy, Mines and Resources conducted a marketing survey of grain producers in the Prairie Provinces. Some of the information obtained from the mail questionnaires is summarized in Table 23. The number of returns was low. Only 31 out of the 71 delivery points returned a sufficient number of questionnaires to analyze; and of the delivery points heard from all returned less than half of their questionnaires. The highest percentage of farm operators replying was 46 at Minton. Average response for the 31 points shown was 18 per cent.

On the basis of returns received the most important factor governing a farmer's choice of delivery point is shortest hauling distance. In total 82 per cent indicated shortest hauling distance as a reason for choosing their delivery point. The point with the lowest affirmative replies was Woodley (11 per cent).

"Best road access" and "preference for elevator company" were next in importance both averaging 57 per cent in the affirmative. "Good shopping facilities" and "banking, business, etc." averaged 32 and 35 per cent. The importance of these increased very substantially as size of community increased obviously reflecting the existence of and a greater variety of services available in larger centers. Among "other reasons" cited were 'good elevator agent' and 'good service'.

Delivery Permit Books Issued

The number of grain delivery permits issued decreased between 1962-63 and 1969-70 as shown in Table 24. The area total decreased because of fewer permits issued at nearly all delivery points reflecting a decline in the number of grain farms in the area. Proportionally, small communities lost more than large communities; although, Innes and Hoffer increased slightly. No hamlets and only four villages showed increases. Three of the four greater towns experienced increases while Weyburn had the largest increase of 27 permits.

TABLE 23. FACTORS GOVERNING GRAIN FARM OPERATORS' CHOICE OF DELIVERY POINT, 1966

Delivery Point	Best Road Access	Preference For Elevator Company	Shortest Hauling Distance	Good Shopping Facilities	Banking Business Etc.	Other Reasons	Per cent of Farm Operators Replying to Questionnaire
- per cent of total replies in affirmative -							
<i>Too Small to Classify</i>							
Brooking	67	67	100	0	0	0	15
Clearfield	0	33	100	0	0	0	23
Innes	100	25	50	0	0	0	42
Roncott	0	40	90	0	0	20	24
Union Jack	40	60	100	0	0	0	31
Cullen	88	100	100	0	0	0	28
<i>Hamlets</i>							
Grassdale	0	8	100	0	0	0	42
East Poplar	33	33	50	17	0	17	10
Harpree	20	40	70	10	10	0	19
Horizon	17	17	100	0	0	0	9
Woodley	78	78	11	0	0	0	30
Constance	60	60	40	0	0	0	9
Hardy	75	82	100	11	0	0	39
<i>Villages</i>							
Froude	46	55	73	0	0	0	34
Verwood	50	17	50	0	0	0	8
Halbrite	23	92	85	0	0	0	22
Goodwater	83	33	100	17	0	0	10
Fife Lake	53	80	60	27	13	0	17
Oungre	100	13	100	0	0	0	22
Tribune	70	90	70	60	0	0	8

(continued)

TABLE 23. FACTORS GOVERNING GRAIN FARM OPERATORS' CHOICE OF DELIVERY POINT, 1966 (concluded)

Delivery Point	Best Road Access	Preference For Elevator Company	Shortest Hauling Distance	Good Shopping Facilities	Banking Business Etc.	Other Reasons	Per cent of	
							Farm Operators Replying to	Questionnaire
- per cent of total replies in affirmative -								
Viceroy	50	44	56	13	13	0	17	
Big Beaver	0	0	100	0	0	0	43	
Minton	83	72	100	36	98	0	46	
Creelman	36	73	73	27	9	18	10	
Towns								
Pangman	55	73	100	91	73	9	27	
Torquay	100	55	73	46	27	0	8	
Willow Bunch	100	33	100	100	50	0	4	
Coronach	86	29	71	57	71	0	7	
Midale	83	95	90	88	88	0	30	
Ogema	100	100	100	83	67	0	23	
Greater Towns								
Radville	85	39	62	85	69	0	6	
Study Area Total	57	57	82	32	35	2	18	

Source: Prairie Farm Marketing Survey, Geographical Branch, Canada Department of Energy, Mines and Resources, 1966. (Unpublished)

TABLE 24. DELIVERY PERMIT BOOKS ISSUED BY DELIVERY POINT, 1962-63 TO 1969-70

Delivery Point	1962-63	1963-64	1964-65	1965-66	1966-67	1967-68	1968-69	1969-70
<i>Too Small to Classify</i>								
Axford	10	11	10	9	8	-	-	-
Gye	31	-	-	-	-	-	-	-
Abbott	21	19	20	19	16	12	11	-
Brooking	29	22	22	22	20	15	16	-
Blewett	14	18	16	9	8	7	7	-
Blooming	7	6	5	4	3	-	-	-
Caxton	17	14	13	-	-	-	-	-
Buffalo Gap	18	19	18	-	-	-	-	-
Clearfield	15	17	16	13	13	9	9	8
Innes	18	19	17	17	19	19	21	21
Ritchie	25	25	22	23	23	20	20	19
Roncott	47	47	43	42	41	38	36	34
Bryant	33	30	29	26	25	24	24	19
Union Jack	25	26	26	18	16	16	17	16
Hoffer	21	22	23	23	24	24	23	25
Viewfield	21	22	21	22	21	20	19	19
Cullen	29	30	30	30	29	32	27	27
Hume	29	26	29	33	33	30	27	25
Hitchcock	54	52	51	48	43	43	42	40
<i>Hamlets</i>								
Grassdale	33	33	30	30	31	30	28	26
Talmage	65	65	65	63	66	65	65	60
Huntoon	45	43	41	40	38	38	37	38
Ralph	30	26	24	24	22	21	19	20
East Poplar	58	56	57	65	60	53	54	51
Hart	50	53	49	50	43	44	40	39
Ratcliffe	58	56	55	53	50	48	41	42
Glasnevin	71	70	68	65	66	65	60	53
Harpree	66	66	60	56	52	49	49	46
Horizon	89	86	79	72	65	65	60	58
Outram	101	98	95	89	87	80	77	78
Woodley	36	30	29	29	30	28	25	21
Constance	70	70	62	54	53	49	47	45
Hardy	79	77	77	77	71	69	71	67
Amulet	48	43	45	43	42	39	36	33
Heward	52	53	52	54	51	43	41	43
<i>Villages</i>								
Froude	33	36	31	32	32	32	27	25
Beaubier	40	36	33	30	27	31	37	36
Khedive	77	78	77	79	79	86	81	85
Verwood	86	85	81	75	73	68	70	73
Scout Lake	77	76	76	70	63	63	55	51
Trossachs	68	64	57	54	54	56	55	52
Gladmar	98	95	91	87	82	80	79	76
Benson	72	70	71	65	61	64	67	65
Griffin	115	111	107	102	104	107	106	109
Forget	80	75	76	71	69	67	62	57
Halbrite	69	68	62	61	60	59	60	55
Bromhead	88	93	95	93	92	94	97	92
Goodwater	66	65	63	61	58	55	55	47
Fife Lake	104	96	96	91	86	88	85	85
Oungre	41	38	35	37	36	39	38	37
Colgate	100	98	100	94	90	84	77	75
Tribune	138	137	129	133	133	135	141	149
Viceroy	103	106	105	102	97	95	91	90
Macoun	108	99	95	99	93	93	95	99
Big Beaver	108	107	106	110	112	113	110	117
Lake Alma	119	110	112	107	106	106	108	103

(continued)

TABLE 24. DELIVERY PERMIT BOOKS ISSUED BY DELIVERY POINT, 1962-63 TO 1969-70 (concluded)

Delivery Point	1962-63	1963-64	1964-65	1965-66	1966-67	1967-68	1968-69	1969-70
Minton	134	132	131	127	115	116	113	107
Creelman	112	108	103	106	108	107	105	103
<i>Towns</i>								
Pangman	86	89	81	83	82	82	77	78
Ceylon	170	166	159	152	153	151	147	149
Torquay	160	153	150	153	142	134	132	132
Willow Bunch	126	151	147	148	142	141	136	134
Coronach	114	108	109	110	108	105	102	104
Midale	149	142	137	138	137	136	135	137
Ogema	99	102	104	98	92	89	96	100
<i>Greater Towns</i>								
Lampman	118	117	117	110	110	108	109	128
Bengough	206	197	199	190	184	185	180	180
Stoughton	126	121	118	129	127	128	127	129
Radville	249	253	248	242	237	242	235	250
<i>Cities</i>								
Estevan	223	225	210	206	200	197	208	211
Weyburn	284	291	288	295	285	286	294	311
Study Area Total	5,561	5,448	5,298	5,162	4,998	4,917	4,841	4,804

Source: Delivery Permit Books, Canadian Wheat Board, Winnipeg.

Canadian Wheat Board Initial Payments

Under the Canadian Wheat Board marketing system producers receive an initial payment upon delivery of their grain to the country elevator. Tables 25 and 26 show net initial payments as based on a set value at the Lakehead, less freight costs from the delivery point and less country elevator handling charges. Initial payments in 1967-68 and 1969-70 for selected grades of wheat, oats and barley at each delivery point, as well as applicable freight rates are shown.

Freight rate zones have been established which follow a general north-south orientation and increase by one-cent-per hundredweight steps as one moves westward from the Lakehead. In the Weyburn study area Lampman on the extreme east has the lowest freight rate at 18 cents; and points along the Big Beaver-Scout Lake rail line in the west have the highest rate at 22 cents. It follows, therefore, that net initial payments are highest at Lampman and are lowest at those points in the 22 cent freight rate zone.

It should also be noted that a farmer located on or near the boundary between two freight zones may well take this into account when choosing his delivery point. For example, someone delivering to Bromhead receives \$1.28 $\frac{3}{4}$ per bushel (No. 2 wheat, 1969-70) which is $\frac{1}{2}$ cent more than the \$1.28 $\frac{1}{4}$ per bushel he would receive at neighboring Harptree. To the extent that this has a bearing on each farmer's choice of delivery point, to that extent also will the size and shape of delivery point hinterlands be affected.

TABLE 25. CANADIAN WHEAT BOARD NET INITIAL PAYMENTS TO PRODUCERS ("STREET PRICES") BY DELIVERY POINT, CROP YEAR 1967-68

Delivery Point	Grain Freight Rates to Lakehead ^a	Wheat				No. 2 C.W. Oats	No. 1 Feed Oats	No. 3 C.W. 6 Row Barley	No. 1 Feed Barley	
		No. 1 Northern and C.W.A.D.	No. 2 Northern and C.W.A.D.	No. 4 Northern and C.W.A.D.	No. 4 C.W.A.D.					
		- dollars per bushel -								
Too Small to Classify ^b										
Abbott	20	1.52 3/4	1.48 3/4	1.37 3/4	.54 1/8	.49 1/8	.91 1/8	.82 1/8		
Brooking	20	1.52 3/4	1.48 3/4	1.37 3/4	.54 1/8	.49 1/8	.91 1/8	.82 1/8		
Blewett	19	1.53 1/4	1.49 1/4	1.38 1/4	.54 1/2	.49 1/2	.91 5/8	.82 5/8		
Cleaveland	20	1.52 3/4	1.48 3/4	1.37 3/4	.54 1/8	.49 1/8	.91 1/8	.82 1/8		
Innes	19	1.53 1/4	1.49 1/4	1.38 1/4	.54 1/2	.49 1/2	.91 5/8	.82 5/8		
Ritchie	20	1.52 3/4	1.48 3/4	1.37 3/4	.54 1/8	.49 1/8	.91 1/8	.82 1/8		
Roncott	20	1.52 3/4	1.48 3/4	1.37 3/4	.54 1/8	.49 1/8	.91 1/8	.82 1/8		
Bryant	19	1.53 3/4	1.49 1/4	1.38 1/4	.54 1/2	.49 1/2	.91 5/8	.82 5/8		
Union Jack	19	1.53 1/4	1.49 1/4	1.38 1/4	.54 1/2	.49 1/2	.91 5/8	.82 5/8		
Hoffer	20	1.52 3/4	1.48 3/4	1.37 3/4	.54 1/8	.49 1/8	.91 1/8	.82 1/8		
Viewfield	19	1.53 1/4	1.49 1/4	1.38 1/4	.54 1/2	.49 1/2	.91 5/8	.82 5/8		
Cullen	19	1.53 1/4	1.49 1/4	1.38 1/4	.54 1/2	.49 1/2	.91 5/8	.82 5/8		
Hume	19	1.53 1/4	1.49 1/4	1.38 1/4	.54 1/2	.49 1/2	.91 5/8	.82 5/8		
Hitchcock	19	1.53 1/4	1.49 1/4	1.38 1/4	.54 1/2	.49 1/2	.91 5/8	.82 5/8		
Hamlets										
Grassdale	19	1.53 1/4	1.49 1/4	1.38 1/4	.54 1/2	.49 1/2	.91 5/8	.82 5/8		
Talmage	19	1.53 1/4	1.49 1/4	1.38 1/4	.54 1/2	.49 1/2	.91 5/8	.82 5/8		
Huntoon	19	1.53 1/4	1.49 1/4	1.38 1/4	.54 1/2	.49 1/2	.91 5/8	.82 5/8		
Ralph	20	1.52 3/4	1.48 3/4	1.37 3/4	.54 1/8	.49 1/8	.91 1/8	.82 1/8		
East Poplar	22	1.51 1/2	1.47 1/2	1.36 1/2	.53 1/2	.48 1/2	.90 1/8	.81 1/8		
Hart	22	1.51 1/2	1.47 1/2	1.36 1/2	.53 1/2	.48 1/2	.90 1/8	.81 1/8		
Ratcliffe	20	1.52 3/4	1.48 3/4	1.37 3/4	.54 1/8	.49 1/8	.91 1/8	.82 1/8		
Glasnevin	20	1.52 3/4	1.48 3/4	1.37 3/4	.54 1/8	.49 1/8	.91 1/8	.82 1/8		
Hartree	21	1.52	1.48	1.37	.53 3/4	.48 3/4	.90 5/8	.81 5/8		
Horizon	20	1.52 3/4	1.48 3/4	1.37 3/4	.54 1/8	.49 1/8	.91 1/8	.82 1/8		
Outram	19	1.53 1/4	1.49 1/4	1.38 1/4	.54 1/2	.49 1/2	.91 5/8	.82 5/8		
Woodley	19	1.53 1/4	1.49 1/4	1.38 1/4	.54 1/2	.49 1/2	.91 5/8	.82 5/8		
Constance	22	1.51 1/2	1.47 1/2	1.36 1/2	.53 1/2	.48 1/2	.90 1/8	.81 1/8		
Hardy	20	1.52 3/4	1.48 3/4	1.37 3/4	.54 1/8	.49 1/8	.91 1/8	.82 1/8		
Amulet	20	1.52 3/4	1.48 3/4	1.37 3/4	.54 1/8	.49 1/8	.91 1/8	.82 1/8		
Heward	19	1.53 1/4	1.49 1/4	1.38 1/4	.54 1/2	.49 1/2	.91 5/8	.82 5/8		
Villages										
Froude	19	1.53 1/4	1.49 1/4	1.38 1/4	.54 1/2	.49 1/2	.91 5/8	.82 5/8		
Beaubier	20	1.52 3/4	1.48 3/4	1.37 3/4	.54 1/8	.49 1/8	.91 1/8	.82 1/8		
Khediye	20	1.52 3/4	1.48 3/4	1.37 3/4	.54 1/8	.49 1/8	.91 1/8	.82 1/8		
Verwood	21	1.52	1.48	1.37	.53 3/4	.48 3/4	.90 5/8	.81 5/8		
Scout Lake	22	1.51 1/2	1.47 1/2	1.36 1/2	.53 1/2	.48 1/2	.90 1/8	.81 1/8		
Trossachs	20	1.52 3/4	1.48 3/4	1.37 3/4	.54 1/8	.49 1/8	.91 1/8	.82 1/8		
Gladmar	20	1.52 3/4	1.48 3/4	1.37 3/4	.54 1/8	.49 1/8	.91 1/8	.82 1/8		
Benson	19	1.53 1/4	1.49 1/4	1.38 1/4	.54 1/2	.49 1/2	.91 5/8	.82 5/8		

See footnotes at end of table

(continued)

TABLE 25. CANADIAN WHEAT BOARD NET INITIAL PAYMENTS TO PRODUCERS ("STREET PRICES") BY DELIVERY POINT, CROP YEAR 1967-68 (concluded)

Delivery Point	Grain Freight Rates to Lakehead ^a	Wheat						No. 1 Feed Oats	No. 2 C.W. Oats	No. 3 C.W. 6 Row Barley	No. 1 Feed Barley
		- cents/cwt -									
		No. 1 Northern and No. 1 C.W.A.D.	No. 2 Northern and No. 2 C.W.A.D.	No. 4 Northern and No. 4 C.W.A.D.	- dollars per bushel -						
Griffin	19	1.53 1/4	1.48 1/4	1.38 1/4	.54 1/2	.49 1/2	.91 5/8	.82 5/8			
Forget	19	1.53 1/4	1.49 1/4	1.38 1/4	.54 1/2	.49 1/2	.91 5/8	.82 5/8			
Halbrite	20	1.52 3/4	1.48 3/4	1.37 3/4	.54 1/8	.49 1/8	.91 1/8	.82 1/8			
Bromhead	19	1.53 1/4	1.49 1/4	1.38 1/4	.54 1/2	.49 1/2	.91 5/8	.82 5/8			
Goodwater	20	1.52 3/4	1.48 3/4	1.37 3/4	.54 1/8	.49 1/8	.91 1/8	.82 1/8			
Fife Lake	22	1.51 1/2	1.47 1/2	1.36 1/2	.53 1/2	.48 1/2	.90 1/8	.81 1/8			
Oungre	20	1.52 3/4	1.48 3/4	1.37 3/4	.54 1/8	.49 1/8	.91 1/8	.82 1/8			
Colgate	20	1.52 3/4	1.48 3/4	1.37 3/4	.54 1/8	.49 1/8	.91 1/8	.82 1/8			
Tribune	20	1.52 3/4	1.48 3/4	1.37 3/4	.54 1/8	.49 1/8	.91 1/8	.82 1/8			
Viceroy	20	1.52 3/4	1.48 3/4	1.37 3/4	.54 1/8	.49 1/8	.91 1/8	.82 1/8			
Macoun	19	1.53 1/4	1.49 1/4	1.38 1/4	.54 1/2	.49 1/2	.91 5/8	.82 5/8			
Big Beaver	22	1.51 1/2	1.47 1/2	1.36 1/2	.53 1/2	.48 1/2	.90 1/8	.81 1/8			
Lake Alma	20	1.52 3/4	1.48 3/4	1.37 3/4	.54 1/8	.49 1/8	.91 1/8	.82 1/8			
Minton	20	1.52 3/4	1.48 3/4	1.37 3/4	.54 1/8	.49 1/8	.91 1/8	.82 1/8			
Creelman	19	1.53 3/4	1.49 1/4	1.38 1/4	.54 1/2	.49 1/2	.91 5/8	.82 5/8			
Towns											
Pangman	20	1.52 3/4	1.48 3/4	1.37 3/4	.54 1/8	.49 1/8	.91 1/8	.82 1/8			
Ceylon	20	1.52 3/4	1.48 3/4	1.37 3/4	.54 1/8	.49 1/8	.91 1/8	.82 1/8			
Torquay	19	1.53 1/4	1.49 1/4	1.38 1/4	.54 1/2	.49 1/2	.91 5/8	.82 5/8			
Willow Bunch	21	1.52	1.48	1.37	.53 3/4	.48 3/4	.90 5/8	.81 5/8			
Coronach	22	1.51 1/2	1.47 1/2	1.36 1/2	.53 1/2	.48 1/2	.90 1/8	.81 1/8			
Midale	19	1.53 1/4	1.49 1/4	1.38 1/4	.54 1/2	.49 1/2	.91 5/8	.82 5/8			
Ogema	20	1.52 3/4	1.48 3/4	1.37 3/4	.54 1/8	.49 1/8	.91 1/8	.82 1/8			
Greater Towns											
Lampman	18	1.53 3/4	1.49 3/4	1.38 3/4	.54 7/8	.49 7/8	.92	.83			
Bengough	20	1.52 3/4	1.48 3/4	1.37 3/4	.54 1/8	.49 1/8	.91 1/8	.82 1/8			
Stoughton	19	1.53 1/4	1.49 1/4	1.38 1/4	.54 1/2	.49 1/2	.91 5/8	.82 5/8			
Radville	20	1.52 3/4	1.48 3/4	1.37 3/4	.54 1/8	.49 1/8	.91 1/8	.82 1/8			
Cities											
Estevan	19	1.53 1/4	1.49 1/4	1.38 1/4	.54 1/2	.49 1/2	.91 5/8	.82 5/8			
Weyburn	19	1.53 1/4	1.49 1/4	1.38 1/4	.54 1/2	.49 1/2	.91 5/8	.82 5/8			

^aFlaxseed and Rapeseed 1 1/2 cents per hundredweight higher.

^bAxford, Gye, Blooming, Caxton and Buffalo Gap closed.

Source: Canadian Wheat Board, Winnipeg.

TABLE 26. CANADIAN WHEAT BOARD NET INITIAL PAYMENTS TO PRODUCERS ("STREET PRICES") BY DELIVERY POINT, CROP YEAR 1969-70

Delivery Point	Grain Freight Rates to Lakehead ^a	Wheat				No. 1 Feed Oats	No. 2 C.W. Oats	No. 3 C.W. 6 Row Barley	No. 1 Feed Barley	
		No. 1 Northern and No. 1 C.W.A.D.		No. 2 Northern and No. 2 C.W.A.D.						No. 4 Northern and No. 4 C.W.A.D.
		No. 1 Northern and No. 1 C.W.A.D.	No. 2 Northern and No. 2 C.W.A.D.	No. 2 Northern and No. 2 C.W.A.D.	No. 4 Northern and No. 4 C.W.A.D.					
- cents/cwt -										
- dollars per bushel -										
Too Small to Classify ^b										
Clearfield	20	1.32 1/4	1.28 1/4	1.15 1/4	.43 5/8	.48 5/8	.75 5/8	.65 5/8		
Innes	19	1.32 3/4	1.28 3/4	1.15 3/4	.44	.49	.76 1/8	.66 1/8		
Ritchie	20	1.32 1/4	1.28 1/4	1.15 1/4	.43 5/8	.48 5/8	.75 5/8	.65 5/8		
Roncott	20	1.32 1/4	1.28 1/4	1.15 1/4	.43 5/8	.48 5/8	.75 5/8	.65 5/8		
Bryant	19	1.32 3/4	1.28 3/4	1.15 3/4	.44	.49	.76 1/8	.66 1/8		
Union Jack	19	1.32 3/4	1.28 3/4	1.15 3/4	.44	.49	.76 1/8	.66 1/8		
Hoffer	20	1.32 1/4	1.28 1/4	1.15 1/4	.43 5/8	.48 5/8	.75 5/8	.65 5/8		
Viewfield	19	1.32 3/4	1.28 3/4	1.15 3/4	.44	.49	.76 1/8	.66 1/8		
Cullen	19	1.32 3/4	1.28 3/4	1.15 3/4	.44	.49	.76 1/8	.66 1/8		
Hume	19	1.32 3/4	1.28 3/4	1.15 3/4	.44	.49	.76 1/8	.66 1/8		
Hitchcock	19	1.32 3/4	1.28 3/4	1.15 3/4	.44	.49	.76 1/8	.66 1/8		
Hamlets										
Grassdale	19	1.32 3/4	1.28 3/4	1.15 3/4	.44	.49	.76 1/8	.66 1/8		
Talmage	19	1.32 3/4	1.28 3/4	1.15 3/4	.44	.49	.76 1/8	.66 1/8		
Huntoon	19	1.32 3/4	1.28 3/4	1.15 3/4	.44	.49	.76 1/8	.66 1/8		
Ralph	20	1.32 1/4	1.28 1/4	1.15 1/4	.43 5/8	.48 5/8	.75 5/8	.65 5/8		
East Poplar	22	1.31	1.27	1.14	.43	.48	.74 5/8	.64 5/8		
Hart	22	1.31	1.27	1.14	.43	.48	.74 5/8	.64 5/8		
Ratcliffe	20	1.32 1/4	1.28 1/4	1.15 1/4	.43 5/8	.48 5/8	.75 5/8	.65 5/8		
Glasnevin	20	1.32 1/4	1.28 1/4	1.15 1/4	.43 5/8	.48 5/8	.75 5/8	.65 5/8		
Harptree	21	1.31 1/2	1.27 1/2	1.14 1/2	.43 1/4	.48 1/4	.75 1/8	.65 1/8		
Horizon	20	1.32 1/4	1.28 1/4	1.15 1/4	.43 5/8	.48 5/8	.75 5/8	.65 5/8		
Outram	19	1.32 3/4	1.28 3/4	1.15 3/4	.44	.49	.76 1/8	.66 1/8		
Woodley	19	1.32 3/4	1.28 3/4	1.15 3/4	.44	.49	.76 1/8	.66 1/8		
Constance	22	1.31	1.27	1.14	.43	.48	.74 5/8	.64 5/8		
Hardy	20	1.32 1/4	1.28 1/4	1.15 1/4	.43 5/8	.48 5/8	.75 5/8	.65 5/8		
Amulet	20	1.32 1/4	1.28 1/4	1.15 1/4	.43 5/8	.48 5/8	.75 5/8	.65 5/8		
Heward	19	1.32 3/4	1.28 3/4	1.15 3/4	.44	.49	.76 1/8	.66 1/8		
Villages										
Froude	19	1.32 3/4	1.28 3/4	1.15 3/4	.44	.49	.76 1/8	.66 1/8		
Beaubier	20	1.32 1/4	1.28 1/4	1.15 1/4	.43 5/8	.48 5/8	.75 5/8	.65 5/8		
Khedive	20	1.32 1/4	1.28 1/4	1.15 1/4	.43 5/8	.48 5/8	.75 5/8	.65 5/8		
Verwood	21	1.31 1/2	1.27 1/2	1.14 1/2	.43 1/4	.48 1/4	.75 1/8	.65 1/8		
Scout Lake	22	1.31	1.27	1.14	.43	.48	.74 5/8	.64 5/8		
Trossachs	20	1.32 1/4	1.28 1/4	1.15 1/4	.43 5/8	.48 5/8	.75 5/8	.65 5/8		
Gladmar	20	1.32 1/4	1.28 1/4	1.15 1/4	.43 5/8	.48 5/8	.75 5/8	.65 5/8		
Benson	19	1.32 3/4	1.28 3/4	1.15 3/4	.44	.49	.76 1/8	.66 1/8		
Griffin	19	1.32 3/4	1.28 3/4	1.15 3/4	.44	.49	.76 1/8	.66 1/8		
Forget	19	1.32 3/4	1.28 3/4	1.15 3/4	.44	.49	.76 1/8	.66 1/8		

(continued)

See footnotes at end of table

TABLE 26. CANADIAN WHEAT BOARD NET INITIAL PAYMENTS TO PRODUCERS ("STREET PRICES") BY DELIVERY POINT, CROP YEAR 1969-70 (concluded)

Delivery Point	Grain Freight Rates to Lakehead ^a	Wheat				No. 1 Feed Oats	No. 2 C.W. Oats	No. 3 C.W. 6 Row Barley	No. 1 Feed Barley
		No. 1 Northern and No. 1 C.W.A.D.	No. 2 Northern and No. 2 C.W.A.D.	No. 4 Northern and No. 4 C.W.A.D.					
- cents/cwt -									
- dollars per bushel -									
Halbrite	20	1.32 1/4	1.28 1/4	1.15 1/4	.48 5/8	.43 5/8	.75 5/8	.65 5/8	
Bromhead	19	1.32 3/4	1.28 3/4	1.15 3/4	.49	.44	.76 1/8	.66 1/8	
Goodwater	20	1.32 1/4	1.28 1/4	1.15 1/4	.48 5/8	.43 5/8	.75 5/8	.65 5/8	
Fife Lake	22	1.31	1.27	1.14	.48	.43	.74 5/8	.64 5/8	
Oungre	20	1.32 1/4	1.28 1/4	1.15 1/4	.48 5/8	.43 5/8	.75 5/8	.65 5/8	
Colgate	20	1.32 1/4	1.28 1/4	1.15 1/4	.48 5/8	.43 5/8	.75 5/8	.65 5/8	
Tribune	20	1.32 1/4	1.28 1/4	1.15 1/4	.48 5/8	.43 5/8	.75 5/8	.65 5/8	
Viceroy	20	1.32 1/4	1.28 1/4	1.15 1/4	.48 5/8	.43 5/8	.75 5/8	.65 5/8	
Macoun	19	1.32 3/4	1.28 3/4	1.15 3/4	.49	.44	.76 1/8	.66 1/8	
Big Beaver	22	1.31	1.27	1.14	.48	.43	.74 5/8	.64 5/8	
Lake Alma	20	1.32 1/4	1.28 1/4	1.15 1/4	.48 5/8	.43 5/8	.75 5/8	.65 5/8	
Minton	20	1.32 1/4	1.28 1/4	1.15 1/4	.48 5/8	.43 5/8	.75 5/8	.65 5/8	
Creelman	19	1.32 3/4	1.28 3/4	1.15 3/4	.49	.44	.76 1/8	.66 1/8	
Towns									
Pangman	20	1.32 1/4	1.28 1/4	1.15 1/4	.48 5/8	.43 5/8	.75 5/8	.65 5/8	
Ceylon	20	1.32 1/4	1.28 1/4	1.15 1/4	.48 5/8	.43 5/8	.75 5/8	.65 5/8	
Torquay	19	1.32 3/4	1.28 3/4	1.15 3/4	.49	.44	.76 1/8	.66 1/8	
Willow Bunch	21	1.31 1/2	1.27 1/2	1.14 1/2	.48 1/4	.43 1/4	.75 1/8	.65 1/8	
Coronach	22	1.31	1.27	1.14	.48	.43	.74 5/8	.64 5/8	
Midale	19	1.32 3/4	1.28 3/4	1.15 3/4	.49	.44	.76 1/8	.66 1/8	
Ogema	20	1.32 1/4	1.28 1/4	1.15 1/4	.48 5/8	.43 5/8	.75 5/8	.65 5/8	
Greater Towns									
Lampman	18	1.33 1/4	1.29 1/4	1.16 1/4	.49 3/8	.44 3/8	.76 1/2	.66 1/2	
Bengough	20	1.32 1/4	1.28 1/4	1.15 1/4	.48 5/8	.43 5/8	.75 5/8	.65 5/8	
Stoughton	19	1.32 3/4	1.28 3/4	1.15 3/4	.49	.44	.76 1/8	.66 1/8	
Radville	20	1.32 1/4	1.28 1/4	1.15 1/4	.48 5/8	.43 5/8	.75 5/8	.65 5/8	
Cities									
Estevan	19	1.32 3/4	1.28 3/4	1.15 3/4	.49	.44	.76 1/8	.66 1/8	
Weyburn	19	1.32 3/4	1.28 3/4	1.15 3/4	.49	.44	.76 1/8	.66 1/8	

^aFlaxseed and Rapeseed 1 1/2 cents per hundredweight higher.

^bAxford, Gye, Abbott, Brooking, Blewett, Blooming, Caxton and Buffalo Gap closed.

Source: Canadian Wheat Board, Winnipeg.

Number and Capacity of Country Elevators

The number and storage capacity of grain elevators at any particular delivery point is a measure of the importance of that point as a grain collection and distribution center.¹ Table 27 contains this information, again for the crop years 1962-63 and 1969-70. The number of grain elevator companies represented at each point in 1969 is also shown.

Almost all points had the same number, or fewer, elevators in 1969-70 than in 1962-63. The exceptions were Stoughton, Estevan and Weyburn which added one elevator each. However, numerous points, other than those too small to classify, increased their storage capacities with Stoughton showing the largest increase of 220 thousand bushels. The largest single point both in terms of number of elevators and total storage capacity was Weyburn.

Examination of the number of grain companies present at each delivery point reveals the fact that where two or more elevators exist, often two or more companies are present also. This is an indication of the degree of competition among elevator companies. Between 1962 and 1969 four delivery points in the study area were closed down completely, four were closed for deliveries and are now used for storage only, and six points changed from two-company to one-company delivery points.

¹Bushel receipts should also be taken into account. See Table 28.

TABLE 27. NUMBER AND CAPACITY OF LICENSED COUNTRY ELEVATORS BY DELIVERY POINT, 1962-63 AND 1969-70

Delivery Point	Number of Elevators		Storage Capacity		Number of Grain Companies	
	1962-63	1969-70	1962-63	1969-70	Aug. 1, 1962	Aug. 1, 1969
	- number -		- '000 bushels -		- number -	
<i>Too Small to Classify</i>						
Axford ^a	1	1	23	23	1	1
Gye	2	-	99	-	2	-
Abbott ^a	1	1	27	27	1	1
Brooking ^a	1	1	74	74	1	1
Blewett	1	-	24	-	1	-
Blooming ^a	1	1	28	28	1	1
Caxton	1	-	27	-	1	-
Buffalo Gap	1	-	54	-	1	-
Clearfield	1	1	27	27	1	1
Innes	1	1	22	22	1	1
Ritchie	1	1	28	28	1	1
Roncott	2	1	75	52	1	1
Bryant	1	1	28	28	1	1
Union Jack	1	1	30	30	1	1
Hoffer	1	1	50	50	1	1
Viewfield	1	1	54	54	1	1
Cullen	1	1	25	25	1	1
Hume	1	1	30	30	1	1
Hitchcock	2	1	50	43	1	1
<i>Hamlets</i>						
Grassdale	2	2	50	50	1	1
Talmage	2	2	125	125	2	1
Huntoon	1	1	51	51	1	1
Ralph	2	2	51	51	1	1
East Poplar	3	3	104	143	2	2
Hart	3	3	117	128	2	2
Ratcliffe	2	2	53	64	2	1
Glasnevin	2	2	100	100	2	2
Harpree	3	3	83	105	2	2
Horizon	3	3	222	222	2	2
Outram	2	1	88	166	1	1
Woodley	2	2	51	51	2	1
Constance	3	3	199	199	2	2
Hardy	2	2	121	121	2	2
Amulet	2	2	80	100	2	1
Heward	3	3	160	160	2	2

See footnotes at end of table

(continued)

TABLE 27. NUMBER AND CAPACITY OF LICENSED COUNTRY ELEVATORS BY DELIVERY POINT, 1962-63 AND 1969-70 (continued)

Delivery Point	Number of Elevators		Storage Capacity		Number of Grain Companies	
	1962-63	1969-70	1962-63	1969-70	Aug. 1, 1962	Aug. 1, 1969
	- number -		- '000 bushels -		- number -	
<i>Villages</i>						
Froude	2	2	51	51	1	1
Beaubier	1	1	26	37	1	1
Khediye	2	2	129	129	2	2
Verwood	3	3	200	200	3	2
Scout Lake	3	3	100	103	2	1
Trossachs	2	1	86	63	1	1
Gladmar	2	2	140	164	2	2
Benson	2	2	109	154	2	2
Griffin	3	3	182	182	2	2
Forget	2	2	86	108	2	2
Halbrite	2	2	87	87	1	1
Bromhead	4	4	132	160	2	2
Goodwater	3	3	146	146	2	1
Fife Lake	2	2	222	284	2	2
Oungre	2	2	56	56	1	1
Colgate	2	2	143	165	2	2
Tribune	3	2	168	199	2	2
Viceroy	3	3	203	203	2	2
Macoun	3	2	162	162	2	2
Big Beaver	4	4	104	168	3	3
Lake Alma	3	3	102	116	2	2
Minton	2	2	141	155	2	2
Creelman	4	3	250	323	2	2
<i>Towns</i>						
Pangman	3	3	167	167	2	2
Ceylon	5	5	300	324	4	4
Torquay	4	3	225	383	3	3
Willow Bunch	4	4	358	358	4	3
Coronach	3	3	187	248	2	2
Midale	3	3	228	280	2	2
Ogema	3	2	110	176	2	2
<i>Greater Towns</i>						
Lampman	2	2	157	245	2	2
Bengough	4	4	298	297	4	3
Stoughton	3	4	180	400	3	4
Radville	4	4	436	496	4	3

See footnotes at end of table

(continued)

TABLE 27. NUMBER AND CAPACITY OF LICENSED COUNTRY ELEVATORS BY DELIVERY POINT, 1962-63 AND 1969-70 (concluded)

Delivery Point	Number of Elevators		Storage Capacity		Number of Grain Companies	
	1962-63	1969-70	1962-63	1969-70	Aug. 1, 1962	Aug 1, 1969
	- number -		- '000 bushels -		- number -	
<i>Cities</i>						
Estevan	4	5	336	397	3	3
Weyburn	7	8	681	807	3	4
Study Area Total	167	156	9,118	10,370		

^aStorage only 1969-70.

Source: Board of Grain Commissioners, Winnipeg.

Receipts of Grain at Country Elevators

Annual receipts of grain at a particular delivery point is another measure of its relative importance as a grain collection and distribution center. Receipts for crop years 1962-63 through to 1969-70 and a ten-year average, 1960-61 to 1969-70, are presented in Table 28 for each delivery point in the study area.

Of all points still in operation as of 1969-70, ten-year average receipts range from 61 thousand bushels at Clearfield to 1,408 thousand bushels at Weyburn. Note that by rank Clearfield is the smallest of all points open and Weyburn the largest. The observation that receipts increase as size of community increases can be further illustrated by listing the average of the ten-year averages for each community class size as follows: too small to classify (i.e. of those still open) 104; hamlets 236; villages 336; towns 522; greater towns 726; and cities 1,075 thousand bushels.

Receipts in 1969-70 were greater than receipts in 1962-63 in only five instances; namely, Hoffer, Verwood, Tribune, Willow Bunch and Stoughton. It should be noted that receipts vary considerably from year to year reflecting such things as crop yields and grain marketings.

TABLE 28. RECEIPTS OF GRAIN AT LICENSED COUNTRY ELEVATORS BY DELIVERY POINT, 1962-63 TO 1969-70 AND TEN-YEAR AVERAGE

Delivery Point	1962-63	1963-64	1964-65	1965-66	1966-67	1967-68	1968-69 ^a	1969-70 ^a	Ten-Year Average 1960-61 to 1969-70
- '000 bushels -									
<i>Too Small to Classify</i>									
Axford	74	106	82	72	53	-	-	-	-
Gye	148	-	-	-	-	-	-	-	-
Abbott	142	134	105	127	23	39	31	-	-
Brooking	152	135	116	134	30	45	49	-	-
Blewett	75	92	74	44	33	23	14	-	-
Blooming	35	35	26	34	12	-	-	-	-
Caxton	100	81	-	-	-	-	-	-	-
Buffalo Gap	111	89	4	-	-	-	-	-	-
Clearfield	76	59	70	93	58	45	37	48	61
Innes	128	124	114	127	114	83	69	85	91
Ritchie	104	98	54	93	67	34	21	60	58
Roncott	168	208	155	212	178	117	110	126	134
Bryant	197	162	126	162	129	87	54	81	111
Union Jack	132	142	116	113	97	66	55	61	92
Hoffer	127	137	165	171	120	95	83	132	114
Viewfield	148	155	112	186	141	98	62	112	111
Cullen	172	160	128	166	140	84	47	78	110
Hume	130	114	92	140	112	57	39	86	84
Hitchcock	285	240	249	297	198	129	93	153	177
<i>Hamlets</i>									
Grassdale	175	194	161	197	167	116	85	94	144
Talimage	397	440	419	445	409	274	239	238	343
Huntoon	267	242	194	266	219	172	108	151	170
Ralph	207	199	132	165	121	83	45	113	177
East Poplar	341	316	261	334	342	209	177	209	227
Hart	239	287	212	276	290	182	153	168	196
Ratcliffe	258	269	256	246	205	147	107	141	187
Glasnevin	337	361	260	341	219	179	173	188	237
Hartree	271	353	238	339	343	192	175	204	219
Horizon	439	464	368	464	351	241	204	307	320
Outram	666	579	508	677	624	452	339	510	461
Woodley	275	212	172	200	193	134	83	103	158
Constance	341	429	272	326	353	222	202	219	261
Hardy	365	377	386	363	247	179	165	216	246
Amulet	226	259	205	236	125	119	105	141	161
Heward	355	352	355	425	365	222	166	316	276
<i>Villages</i>									
Froude	197	209	163	210	204	131	86	123	163
Beaubier	168	175	131	124	103	92	96	135	113

See footnotes at end of table

(continued)

TABLE 28. RECEIPTS OF GRAIN AT LICENSED COUNTRY ELEVATORS BY DELIVERY POINT, 1962-63 TO 1969-70 AND TEN-YEAR AVERAGE (concluded)

Delivery Point	1962-63	1963-64	1964-65	1965-66	1966-67	1967-68	1968-69 ^a	1969-70 ^a	Ten-Year Average 1960-61 to 1969-70
					- '000 bushels -				
Khediye	388	422	394	409	239	279	268	332	297
Verwood	258	429	337	410	407	234	172	308	304
Scout Lake	289	412	288	362	334	223	191	218	265
Trossachs	290	365	266	297	181	194	179	203	230
Gladmar	456	447	347	323	323	231	181	260	300
Benson	571	588	437	583	468	344	249	312	408
Griffin	637	705	586	823	714	396	100	471	502
Forget	428	354	345	410	312	233	163	247	277
Halbrite	343	294	274	350	323	183	106	219	232
Bromhead	522	562	589	647	481	383	349	443	452
Goodwater	257	335	233	352	294	201	172	195	240
Fife Lake	517	582	409	534	666	394	329	415	411
Oungre	242	257	226	215	196	158	129	183	184
Colgate	481	473	474	545	455	316	225	280	362
Tribune	551	620	596	702	606	448	377	567	495
Viceroy	450	559	421	570	496	327	267	362	385
Macoun	634	570	535	650	516	407	272	448	431
Big Beaver	552	460	384	495	432	374	249	447	353
Lake Alma	471	469	356	380	350	230	239	301	317
Minton	598	521	418	504	369	312	217	345	349
Creelman	771	822	743	962	960	523	424	642	664
<i>Towns</i>									
Pangman	427	534	446	506	329	273	275	364	355
Ceylon	768	846	659	769	644	517	413	469	589
Torquay	1,049	1,081	844	1,162	921	653	591	761	792
Willow Bunch	497	893	684	842	854	522	436	540	562
Coronach	600	589	433	585	941	458	357	558	442
Midale	817	769	709	897	654	504	347	550	569
Ogema	451	530	405	528	299	263	310	353	345
<i>Greater Towns</i>									
Lampman	914	899	694	914	760	553	466	638	609
Bengough	814	830	488	875	673	449	321	614	533
Stoughton	684	606	718	857	743	520	388	699	558
Radville	1,562	1,701	1,446	1,634	1,188	1,113	902	1,163	1,203
<i>Cities</i>									
Estevan	1,217	1,077	917	1,196	872	553	400	802	742
Weyburn	1,626	1,640	1,606	1,881	1,936	1,444	1,094	1,493	1,408

^arapeseed is included in 1968-69 and 1969-70 but excluded from receipts in all previous years.

Source: Board of Grain Commissioners, Winnipeg.

Canadian Wheat Board Specified Acreage

Specified acreage refers to farm land devoted to cereal crops, summer-fallow and cultivated forage crops. Excluded are oilseeds, other miscellaneous crops, native pasture and unimproved farm land. During the study period specified acreage constituted the general delivery quota base. Hence, the number of specified acres tributary to a delivery point is an indicator of the amount of grain producing land available and an indicator of the demand for grain handling and storage facilities at that point.

Specified acreages for the period 1962-63 to 1969-70 for each delivery point are shown in Table 29. In 1969-70 approximately 3.1 million acres, out of a total farm acreage of about 3.7 million (Table 17), made up the specified portion. Thus, a one bushel general quota in the study area would bring forth about 3.1 million bushels of grain.

The total specified acreage increased steadily over the period for a total increase of 16.8 per cent. With the exception of four villages all delivery points classified as a village or larger experienced specified acreage increases. Khedive showed the largest increase of 55.2 per cent. A greater proportion of the smaller centers experienced declines (maximum decline at Ralph, 21.7 per cent), however, some of these even showed marked increases such as Innes and Viewfield. The largest absolute increase occurred at Radville which increased in excess of 49 thousand acres.

Table 30 simply provides some added detail with respect to the make up of specified acreage. For each delivery point, both the number of acres and the per cent of total specified acres devoted to Canadian Wheat Board grains are shown. Just as the land use pattern referred to earlier in Table 16 and 17, the pattern with respect to Wheat Board grains is fairly uniform throughout. Roughly 50 to 60 per cent of specified acreage is seeded to wheat, durum, oats and barley. The study area total dropped slightly from 59.0 per cent to 54.7 per cent.

TABLE 29. CANADIAN WHEAT BOARD SPECIFIED ACREAGE FOR DELIVERY QUOTA PURPOSES BY DELIVERY POINT, 1962-63 TO 1969-70

Delivery Point	1962-63 ^a	1963-64	1964-65	1965-66	1966-67	1967-68	1968-69	1969-70	Per cent of change 1962-63 to 1969-70
- acres -									
<i>Too Small to Classify</i>									
Axford	5,730	7,550	7,266	8,054	6,666	Closed	-	-	-
Gye	12,264	Closed	-	-	-	-	-	-	-
Abbott	11,690	11,476	12,623	13,442	10,081	7,094	5,967	Closed	-
Brooking	14,385	10,657	10,333	12,382	11,490	8,199	7,555	Closed	-
Blewett	7,130	8,945	8,965	4,070	4,160	3,910	4,065	Closed	-
Blooming	2,355	3,425	3,535	3,875	2,880	Closed	-	-	-
Caxton	8,379	7,800	7,383	Closed	-	-	-	-	-
Buffalo Gap	8,089	8,885	8,302	Closed	-	-	-	-	-
Clearfield	10,599	12,449	11,236	10,158	11,034	9,083	9,255	9,095	-14.2
Innes	9,943	11,522	11,652	12,092	12,627	13,014	14,319	14,380	+44.6
Ritchie	8,347	9,187	9,543	9,934	9,664	8,459	8,491	9,281	+11.2
Roncott	17,936	20,812	19,875	20,930	21,130	21,432	22,047	21,192	+18.2
Bryant	15,347	15,587	15,542	14,247	14,362	14,005	14,305	13,003	-15.3
Union Jack	11,725	12,471	12,764	10,724	10,244	10,321	10,459	10,399	-11.3
Hoffer	13,586	14,984	18,321	18,223	15,378	15,795	16,851	18,180	+33.8
Viewfield	10,392	10,718	10,541	13,795	14,636	14,765	15,039	15,036	+44.7
Cullen	13,989	14,444	13,694	14,429	13,757	15,830	15,100	14,278	+ 2.1
Hume	13,007	12,700	12,946	14,271	16,157	16,670	16,561	15,641	+20.3
Hitchcock	23,433	23,051	24,324	24,362	22,450	24,144	24,123	24,570	+ 4.9
<i>Hamlets</i>									
Grassdale	16,536	18,745	18,120	17,955	17,985	19,015	19,140	18,346	+10.9
Talmage	35,040	40,715	40,005	40,370	43,335	43,168	42,789	40,108	+14.5
Huntoon	22,723	23,665	23,973	22,994	23,414	23,863	24,959	23,378	+ 2.9
Ralph	17,917	17,907	15,137	15,815	14,810	14,137	13,567	14,022	-21.7
East Poplar	32,439	33,611	31,325	35,308	34,792	32,723	34,007	31,354	- 3.3
Hart	25,334	28,197	29,457	28,861	23,439	25,774	24,369	24,825	- 2.0
Ratcliffe	23,035	24,782	24,244	26,369	26,194	25,586	21,533	21,581	- 6.3
Glasnevin	30,629	33,219	31,365	32,395	34,709	35,432	31,147	30,114	- 1.7
Harptree	26,615	33,458	32,475	32,599	33,477	33,630	32,858	30,825	+15.8
Horizon	35,566	42,450	43,359	43,706	40,671	42,048	40,446	44,216	+24.3

See footnotes at end of table

(continued)

TABLE 29. CANADIAN WHEAT BOARD SPECIFIED ACREAGE FOR DELIVERY QUOTA PURPOSES BY DELIVERY POINT, 1962-63
TO 1969-70 (continued)

Delivery Point	1962-63 ^a	1963-64	1964-65	1965-66	1966-67	1967-68	1968-69	1969-70	Per cent of change 1962-63 to 1969-70
					- acres -				
Outram	63,351	71,070	70,005	63,930	66,562	69,203	68,936	73,206	+15.6
Woodley	19,605	17,962	17,779	17,828	19,796	20,059	17,826	16,379	-16.5
Constance	37,883	41,448	37,812	38,842	36,799	34,261	36,275	33,101	-12.6
Hardy	28,624	32,087	31,994	33,165	32,451	32,440	33,178	32,493	+13.5
Amulet	20,986	22,293	23,728	23,113	23,523	22,946	21,226	21,744	+ 3.6
Heward	28,747	30,267	31,811	31,520	33,080	32,668	33,865	31,200	+ 8.5
<i>Villages</i>									
Froude	19,224	19,412	16,286	17,862	18,780	19,387	16,546	15,972	- 8.5
Beaubier	16,082	16,646	15,699	14,585	14,004	16,721	18,900	19,581	+21.8
Khedive	33,835	39,909	41,994	42,246	43,670	50,476	49,700	52,505	+55.2
Verwood	36,699	44,347	44,317	43,203	43,093	42,251	42,951	43,494	+18.5
Scout Lake	34,683	39,305	37,090	38,786	37,537	38,159	35,064	35,322	+ 1.8
Trossachs	29,310	32,821	31,324	34,405	34,050	36,301	37,888	37,277	+27.2
Gladmar	39,397	42,666	42,454	41,537	41,855	41,635	42,341	42,797	+ 8.6
Benson	40,870	44,798	52,072	45,590	47,463	47,517	49,444	49,640	+21.5
Griffin	62,669	63,933	65,101	69,034	68,927	69,588	71,366	72,150	+15.1
Forget	40,056	40,834	42,100	40,576	40,981	40,400	41,573	38,392	- 4.2
Halbrite	31,814	32,307	31,792	34,963	35,601	35,791	35,893	37,636	+18.3
Bromhead	46,762	54,331	56,636	59,607	60,568	65,902	62,771	62,007	+32.6
Goodwater	34,481	37,533	37,648	37,099	37,653	37,447	37,745	33,678	- 2.2
Fife Lake	51,558	53,162	55,484	57,426	58,872	59,719	59,567	60,469	+17.3
Oungre	28,444	28,739	26,255	25,270	26,995	26,376	27,258	26,316	- 7.5
Colgate	47,357	50,237	53,343	53,882	53,207	51,519	50,130	48,173	+ 1.7
Tribune	71,677	75,885	75,565	75,087	78,899	78,484	81,193	82,767	+15.5
Viceroy	40,312	49,881	51,216	49,796	51,419	51,337	50,856	52,178	+29.4
Macoun	54,033	52,494	51,062	59,416	60,137	61,862	63,079	67,584	+25.1
Big Beaver	48,866	53,110	53,284	59,685	60,553	62,008	63,054	65,235	+33.5
Lake Alma	43,256	43,993	47,199	48,268	48,899	52,920	51,904	52,858	+22.2
Minton	52,655	52,635	54,317	55,735	55,886	57,766	57,851	58,600	+11.3
Creelman	63,531	68,748	69,052	70,415	73,366	74,641	73,120	73,252	+15.3

See footnotes at end of table (continued)

TABLE 29. CANADIAN WHEAT BOARD SPECIFIED ACREAGE FOR DELIVERY QUOTA PURPOSES BY DELIVERY POINT, 1962-63 TO 1969-70 (concluded)

Delivery Point	1962-63 ^a	1963-64	1964-65	1965-66	1966-67	1967-68	1968-69	1969-70	Per cent of change 1962-63 to 1969-70
- acres -									
<i>Towns</i>									
Pangman	39,525	49,532	47,537	50,744	51,774	51,464	49,645	54,172	+37.1
Ceylon	58,552	70,209	70,181	70,045	72,427	73,887	74,632	74,829	+19.9
Torquay	84,922	95,740	98,863	103,440	102,816	101,668	102,643	104,292	+22.8
Willow Bunch	51,632	76,280	75,759	79,308	80,499	82,202	79,611	79,830	+54.6
Coronach	53,956	55,894	57,118	59,088	64,890	66,934	69,091	74,413	+37.9
Midale	77,832	81,386	82,596	84,303	84,803	86,410	83,891	85,465	+ 9.8
Ogema	37,554	46,434	47,794	47,569	47,110	48,275	54,347	54,423	+44.9
<i>Greater Towns</i>									
Lampman	67,285	73,410	71,358	77,755	78,392	83,065	88,410	104,216	+54.9
Bengough	82,310	90,608	95,309	92,552	95,237	96,864	95,971	92,313	+12.2
Stoughton	59,826	64,477	68,200	77,202	75,468	80,338	82,425	90,956	+52.0
Radville	125,943	148,461	152,430	149,748	158,038	166,834	164,106	175,014	+39.0
<i>Cities</i>									
Estevan	106,084	108,921	93,010	112,155	109,970	112,338	122,317	120,442	+13.5
Weyburn	142,470	158,938	165,847	168,701	168,869	174,246	175,601	190,938	+34.0
Study Area Total	2,638,818	2,886,555	2,898,726	2,956,841	2,984,461	3,032,406	3,043,142	3,081,133	+16.8

^aAcres excluded from specified acreage.

Source: Canadian Wheat Board, Winnipeg.

TABLE 30. NUMBER AND PER CENT OF SPECIFIED ACRES DEVOTED TO CANADIAN WHEAT BOARD GRAINS,^a 1962-63 TO 1969-70

Delivery Point	Board Grains 1962-63		Board Grains 1963-64		Board Grains 1964-65		Board Grains 1965-66		Board Grains 1966-67		Board Grains 1967-68		Board Grains 1968-69		Board Grains 1969-70	
	acres	%	acres	%	acres	%	acres	%	acres	%	acres	%	acres	%	acres	%
<i>Too Small to Classify</i>																
Axford	4,007	69.9	4,540	60.1	4,576	63.0	4,850	60.2	4,230	63.4	Closed		-	-	-	-
Gye	8,164	66.6	Closed		-		-		5,311	52.7	3,965	55.9	3,206	53.7	Closed	
Abbott	6,774	57.9	5,775	50.3	6,582	52.1	7,063	52.5	5,311	52.7	3,965	55.9	3,206	53.7	Closed	
Brooking	7,984	55.5	5,516	51.8	5,570	53.9	6,626	53.5	6,342	55.2	4,605	56.2	4,317	57.1	Closed	
Blewett	3,910	54.8	4,807	53.7	5,170	54.6	2,220	54.6	2,430	58.4	2,315	59.2	2,413	59.4	Closed	
Blooming	1,875	79.6	1,735	50.7	1,897	53.7	2,135	55.1	1,490	51.7	Closed		-	-	-	-
Caxton	4,749	56.7	4,213	54.1	4,319	58.5	Closed		-		-		-		-	
Buffalo Gap	5,445	67.3	5,702	64.1	5,008	60.3	Closed		-		-		-		-	
Clearfield	5,494	51.8	6,353	51.0	5,775	51.4	5,305	52.2	5,681	51.5	4,724	52.0	4,646	50.2	4,387	48.2
Innes	5,860	58.9	6,205	53.9	6,642	57.0	6,782	56.1	7,311	57.9	7,204	55.4	7,950	55.5	7,525	52.3
Ritchie	5,525	66.2	5,383	58.6	5,387	56.4	5,752	57.9	5,921	61.3	4,707	55.6	4,618	54.4	5,596	60.3
Roncott	10,303	57.4	11,168	53.7	10,764	54.2	11,113	53.1	11,256	53.3	11,137	52.0	11,664	52.9	10,693	50.5
Bryant	8,807	57.4	8,730	56.0	8,982	57.8	7,905	55.5	8,527	59.4	7,765	55.4	8,628	60.3	7,613	58.5
Union Jack	6,393	54.5	6,811	54.6	6,782	53.1	5,818	54.3	5,823	56.8	5,764	55.8	5,744	54.9	5,570	53.6
Hoffer	7,487	55.1	7,555	50.4	10,047	54.8	9,806	53.8	8,441	54.9	8,392	53.1	9,159	54.4	9,255	50.9
Viewfield	5,769	55.5	6,057	56.5	5,924	56.2	7,668	55.6	8,453	57.8	8,486	57.5	8,268	55.0	8,384	55.8
Cullen	7,756	55.4	8,808	61.4	7,973	55.6	8,553	59.3	8,661	63.0	9,745	61.6	9,810	65.1	8,972	62.8
Hume	8,133	62.5	7,928	62.0	7,201	55.2	7,936	55.6	9,601	59.4	9,439	56.6	9,810	59.2	8,320	53.2
Hitchcock	12,848	54.8	13,146	57.0	13,232	54.4	13,710	56.3	12,742	56.8	13,899	57.6	13,762	57.0	13,181	53.6
<i>Hamlets</i>																
Grassdale	9,801	59.3	9,817	52.4	9,786	54.0	9,898	55.1	10,296	57.2	10,695	56.2	10,920	57.1	10,077	54.9
Talmage	21,783	62.2	23,225	57.0	22,774	56.9	22,413	55.5	25,264	58.3	25,020	58.0	24,353	56.9	21,848	54.5
Huntoon	13,153	57.9	12,550	53.0	13,608	56.8	12,748	55.4	13,407	57.3	13,017	54.5	14,657	58.7	12,176	52.1
Ralph	10,462	58.4	10,275	57.4	8,815	58.2	9,870	62.4	9,480	64.0	8,852	62.6	8,575	63.2	8,929	63.7
East Poplar	19,114	58.9	20,299	60.4	17,882	57.1	20,233	57.3	20,677	59.4	20,198	61.7	19,818	58.3	17,520	55.9
Hart	15,002	59.2	16,258	57.7	16,982	57.7	16,246	56.3	14,347	61.2	15,985	62.0	14,211	58.3	13,896	56.0
Ratcliffe	13,203	57.3	13,805	55.7	13,637	56.2	14,223	53.9	15,269	58.3	13,651	53.4	12,366	57.4	10,988	50.9
Glasnevin	18,922	61.8	18,005	54.2	17,867	57.0	17,824	55.0	20,115	58.0	19,803	55.9	17,798	57.1	16,152	53.6
Hartree	17,388	65.3	18,897	56.5	18,112	55.8	18,336	56.2	20,878	62.4	20,177	60.0	18,048	54.9	17,333	56.2
Horizon	23,245	65.4	23,780	56.0	24,031	55.4	24,605	56.2	22,482	55.7	22,280	53.0	21,736	53.7	23,774	53.8
Outram	37,921	59.9	39,179	55.1	41,119	58.7	38,615	60.4	42,888	64.4	42,405	63.0	41,879	60.8	40,640	55.5
Woodley	12,125	61.8	11,394	63.4	10,422	58.6	10,753	60.3	12,667	64.0	12,782	63.7	11,557	64.8	10,058	61.4
Constance	22,986	60.7	25,908	62.5	21,668	57.3	22,303	57.4	22,774	61.9	20,682	60.4	21,261	58.6	19,217	58.1
Hardy	17,745	62.0	17,596	54.8	17,179	53.7	17,780	53.6	18,169	56.0	17,709	54.6	18,317	55.2	17,734	54.6
Amulet	11,771	56.1	11,393	51.1	11,810	49.7	11,463	49.6	11,818	50.2	11,633	50.7	10,339	48.7	11,280	51.9
Heward	15,326	53.3	16,424	54.3	17,492	55.0	18,165	57.6	18,616	56.3	19,353	59.2	19,430	57.4	17,054	54.7
<i>Villages</i>																
Froude	10,149	52.8	10,717	55.2	9,145	56.2	9,676	54.2	11,299	60.2	11,566	59.7	9,513	57.5	9,144	57.3
Beaubier	10,589	65.8	9,165	55.1	8,834	56.3	7,838	53.7	7,640	54.6	9,097	54.4	10,399	55.0	10,094	51.5
Kneive	21,746	61.3	21,382	53.6	23,249	55.4	23,120	54.7	24,981	57.2	29,441	58.3	29,069	58.5	30,229	57.6
Verwood	23,251	63.4	24,408	55.0	24,302	54.8	23,239	53.8	24,764	57.5	23,501	55.6	23,314	54.3	24,031	55.3
Scout Lake	20,629	59.5	20,300	51.6	19,470	52.5	20,468	52.8	19,711	52.5	20,203	52.9	18,755	53.5	18,337	51.9

See footnotes at end of table

(continued)

TABLE 30. NUMBER AND PER CENT OF SPECIFIED ACRES DEVOTED TO CANADIAN WHEAT BOARD GRAINS,^a 1962-63 TO 1969-70 (concluded)

Delivery Point	Board Grains 1962-63		Board Grains 1963-64		Board Grains 1964-65		Board Grains 1965-66		Board Grains 1966-67		Board Grains 1967-68		Board Grains 1968-69		Board Grains 1969-70	
	acres	%	acres	%	acres	%	acres	%	acres	%	acres	%	acres	%	acres	%
Trossachs	16,904	57.7	18,417	56.1	17,180	54.8	18,393	53.5	19,136	56.2	20,505	56.5	21,492	56.7	19,020	51.0
Gladmar	24,212	59.5	23,678	55.5	23,572	55.5	22,373	53.9	23,289	55.6	23,248	55.8	23,568	55.7	22,886	53.5
Benson	24,902	60.9	24,939	55.7	28,693	55.1	26,376	57.9	27,782	58.3	27,985	58.9	28,560	57.8	27,956	56.3
Griffin	35,752	57.0	35,613	55.7	36,568	56.2	38,941	56.4	40,718	59.1	39,530	56.8	40,971	57.4	41,339	57.3
Forget	20,893	52.2	20,677	50.6	21,281	50.5	21,351	52.6	21,686	52.9	21,219	52.5	21,506	51.7	19,616	51.1
Halbrite	18,785	59.0	18,155	56.2	17,756	55.9	19,700	56.3	21,258	59.7	20,624	57.6	19,938	55.5	21,498	57.1
Bromhead	27,546	58.9	28,060	51.6	40,357	71.3	31,556	52.9	35,044	57.9	36,520	54.2	35,888	57.2	32,848	53.0
Goodwater	18,992	55.1	20,235	53.9	20,225	53.7	19,504	52.6	21,745	57.8	20,952	56.0	20,793	55.1	18,098	53.7
Fife Lake	32,530	63.1	31,285	58.8	31,925	57.5	33,384	58.1	36,335	61.7	35,830	60.0	35,098	58.9	34,309	56.7
Oungre	15,215	53.5	15,248	53.1	14,197	54.1	13,419	53.1	14,785	54.8	14,562	55.2	14,810	54.3	13,769	52.3
Colgate	25,340	53.5	35,624	70.9	28,002	52.5	28,656	53.2	30,048	56.5	28,683	55.7	28,654	57.2	26,897	55.8
Tribune	39,811	55.5	38,634	51.0	40,704	53.9	41,668	55.5	46,225	58.6	45,515	58.0	49,492	61.0	45,477	54.9
Viceroy	26,989	67.0	27,915	56.0	28,507	55.7	27,521	55.3	29,676	57.7	28,383	55.3	28,268	55.6	28,869	55.3
Macoun	29,314	54.3	28,516	54.3	26,357	51.6	32,601	54.9	34,144	56.8	34,063	55.1	35,704	56.6	36,383	53.8
Big Beaver	27,561	56.4	28,266	53.2	27,768	52.1	32,666	54.7	34,349	56.7	34,344	55.4	35,860	56.9	36,633	56.2
Lake Alma	25,628	59.2	24,823	56.4	26,228	55.6	26,770	55.5	28,048	57.4	29,460	55.7	29,927	57.7	27,345	51.7
Minton	33,194	63.0	31,255	59.4	31,056	57.2	33,010	59.2	32,924	58.9	33,257	57.6	33,899	58.6	32,747	55.9
Creelman	37,312	58.7	37,029	53.9	38,198	55.3	40,034	56.9	44,030	60.0	44,910	60.2	41,908	57.3	37,786	51.6
Towns																
Pangman	23,915	60.5	25,117	50.7	24,978	52.5	26,818	52.8	27,035	52.2	27,606	53.6	25,674	51.7	28,777	53.1
Ceylon	38,963	66.5	37,445	53.3	37,658	53.7	38,396	54.8	40,342	55.7	40,549	54.9	41,940	56.2	40,528	54.2
Torquay	48,187	56.7	51,620	53.9	53,347	54.0	57,746	55.8	61,387	59.7	57,088	56.2	57,243	55.8	57,655	55.3
Willow Bunch	31,756	61.5	43,641	57.2	42,495	56.1	42,784	53.9	45,745	56.8	47,115	57.3	44,020	55.3	42,908	53.7
Coronach	32,134	59.6	33,531	60.0	32,376	56.7	34,143	57.8	39,396	60.7	42,304	63.2	41,746	60.4	40,602	54.6
Midale	41,671	53.5	42,722	52.5	43,124	52.2	44,162	52.4	45,009	53.1	45,363	52.5	44,329	52.8	43,371	50.7
Ogena	23,803	63.4	35,352	76.1	36,048	75.4	26,601	55.9	26,698	56.7	26,997	55.9	30,655	56.4	30,032	55.2
Greater Towns																
Lampman	36,300	53.9	42,861	58.4	41,790	58.6	46,077	59.3	48,242	61.5	50,465	60.8	53,659	60.7	60,552	58.1
Bengough	51,367	62.4	50,965	56.2	53,371	56.0	51,423	55.6	54,807	57.5	53,423	55.2	53,257	55.5	50,406	54.6
Stoughton	31,483	52.6	32,793	50.9	35,470	52.0	41,700	54.0	42,791	56.7	43,954	54.7	46,359	56.2	49,087	54.0
Radville	77,306	61.4	77,301	52.1	81,948	53.8	81,628	54.5	88,486	56.0	91,403	54.8	93,498	57.0	95,111	54.3
Cities																
Estevan	58,164	54.8	61,204	56.2	51,155	55.0	65,600	58.5	66,529	60.5	64,588	57.5	66,690	54.5	64,273	53.4
Weyburn	87,664	61.5	90,288	56.8	95,787	57.8	98,076	58.1	103,628	61.4	105,913	60.8	105,734	60.2	110,993	58.1
Study Area Total	1,556,187	59.0	1,608,418	55.5	1,618,136	55.8	1,646,135	55.6	1,731,239	58.0	1,726,555	56.9	1,731,477	56.9	1,687,778	54.7

^aBoard Grains are: Wheat, Durum, Oats, Barley.

Source: Canadian Wheat Board, Winnipeg.

Quotas Required to Fill Elevator Storage Capacity

Table 31 shows the relationship between elevator storage capacity and specified acreage as these in turn relate to the general quota. The ratio of bushel capacity to specified acreage represents the number of quotas, in bushels per acre, required to completely fill an empty delivery point. As specified acres increase relative to storage capacity the number of quotas needed decrease, and vice versa. The lower the ratio the greater is the demand for space at a delivery point.

There does not appear to be any correlation between size of community and the ratio. The ratio varies from a low of 1.5 at Innes to a high of 6.0 at Constance. Storage capacity at Innes since 1962-63 has remained unchanged at 22,000 bushels but specified acreage increased 44.6 per cent (Table 29) resulting in a sharp decrease in the capacity-to-specified acres ratio from 2.2 to 1.5. Storage capacity at Constance also remained unchanged but a 12.6 per cent (Table 29) decrease in specified acreage pushed the ratio up to 6.0 from 5.3 during the same period.

The median number of quotas required to fill existing capacity is 3.1. Hence, about one-half the delivery points could accommodate a 3 bushel quota, assuming zero inventory and no outward shipments, and about half could not. For example, Constance would only be half full whereas Innes would not be able to hold more than half of the 3 bushel quota. To the extent the Canadian Wheat Board seeks to equalize quota levels among producers to that extent also will those points with a low capacity-to-specified acres ratio be able to maintain a higher through-put ratio¹ than those points with a high capacity-to-specified acres ratio.

Table 31 also shows the approximate number of railway boxcars needed at each delivery point to transport a one bushel quota. The required number of boxcars depends directly on the number of specified acres and as such generally increases with the size of community. The range is from 5 at Clearfield and Ritchie to as many as 96 at Weyburn.

Given that the supply of boxcars at any point in time is limited one might say that a point like Hitchcock has a disadvantage relative to say, Ralph. The former requires 13 cars to move one quota and can only store 1.8 bushel quotas; whereas, the latter is able to store twice its number of quotas, i.e. 3.6, but only requires 7 boxcars to move one quota.

¹The through-put ratio is the total bushel receipts of a delivery point in one year divided by the total bushel storage capacity. See Table 39.

TABLE 31. NUMBER OF QUOTAS PER SPECIFIED ACRE REQUIRED TO FILL ELEVATOR STORAGE CAPACITY, AND NUMBER OF BOXCARS REQUIRED TO MOVE A ONE BUSHEL QUOTA, BY DELIVERY POINT, 1969-70

Delivery Point	Elevator Bushel Capacity ^a	Specified Acres	Number of Quotas to Fill Capacity ^b	Number of Boxcars to move a One Bushel Quota ^c
<i>Too Small to Classify</i>				
Clearfield	27,000	9,095	3.0	5
Innes	22,000	14,380	1.5	8
Ritchie	28,000	9,281	3.0	5
Roncott	52,000	21,192	2.5	11
Bryant	28,000	13,003	2.2	7
Union Jack	30,000	10,399	2.9	6
Hoffer	50,000	18,180	2.8	10
Viewfield	54,000	15,036	3.6	8
Cullen	25,000	14,278	1.8	8
Hume	30,000	15,641	1.9	8
Hitchcock	43,000	24,570	1.8	13
<i>Hamlets</i>				
Grassdale	50,000	18,346	2.7	10
Talmage	125,000	40,108	3.1	21
Huntoon	51,000	23,378	2.2	12
Ralph	51,000	14,022	3.6	7
East Poplar	143,000	31,354	4.6	16
Hart	128,100	24,825	5.2	13
Ratcliffe	63,900	21,581	3.0	11
Glasnevin	100,000	30,114	3.0	16
Harpree	105,000	30,825	3.4	16
Horizon	222,100	44,216	5.0	23
Outram	166,000	73,206	2.3	37
Woodley	51,000	16,379	3.1	9
Constance	199,000	33,101	6.0	17
Hardy	121,000	32,493	3.7	17
Amulet	100,000	21,744	4.6	11
Heward	160,100	31,200	5.1	16
<i>Villages</i>				
Froude	51,000	15,972	3.2	8
Beaubier	37,000	19,581	1.9	10
Khedive	129,100	52,505	2.5	27
Verwood	200,000	43,494	4.6	22
Scout Lake	102,600	35,322	2.9	18
Trossachs	63,000	37,277	1.6	19
Gladmar	164,000	42,797	3.8	27
Benson	153,800	49,640	3.1	25
Griffin	182,000	72,150	2.5	37

See footnotes at end of table

(continued)

TABLE 31. NUMBER OF QUOTAS PER SPECIFIED ACRE REQUIRED TO FILL ELEVATOR STORAGE CAPACITY, AND NUMBER OF BOXCARS REQUIRED TO MOVE A ONE BUSHEL QUOTA, BY DELIVERY POINT, 1969-70 (concluded)

Delivery Point	Elevator Bushel Capacity ^a	Specified Acres	Number of Quotas to Fill Capacity ^b	Number of Boxcars to move a One Bushel Quota ^c
Forget	108,000	38,392	2.8	20
Halbrite	87,000	37,636	2.3	19
Bromhead	160,000	62,007	2.6	31
Goodwater	146,000	33,678	4.3	17
Fife Lake	284,000	60,469	4.7	32
Oungre	56,000	26,316	2.1	14
Colgate	164,500	48,173	3.4	25
Tribune	199,300	82,767	2.4	42
Viceroy	203,000	52,178	3.9	27
Macoun	161,800	67,584	2.4	34
Big Beaver	168,400	65,235	2.6	33
Lake Alma	116,200	52,858	2.2	27
Minton	154,600	58,600	2.6	30
Creelman	322,700	73,252	4.4	37
<i>Towns</i>				
Pangman	167,200	54,172	3.1	28
Ceylon	323,900	74,829	4.3	38
Torquay	383,000	104,292	3.7	53
Willow Bunch	357,900	79,830	4.5	40
Coronach	248,200	74,413	3.3	38
Midale	280,300	85,465	3.3	43
Ogema	175,700	54,423	3.2	28
<i>Greater Towns</i>				
Lampman	245,000	104,216	2.4	53
Bengough	297,000	92,313	3.2	47
Stoughton	399,800	90,956	4.4	46
Radville	496,000	175,014	2.8	88
<i>Cities</i>				
Estevan	397,000	120,442	3.3	61
Weyburn	806,700	190,938	4.2	96

^aAs at August 1, 1969, Grain Elevators in Canada, 1969-70, Board of Grain Commissioners, Winnipeg.

^bRatio of bushel capacity to specified acres, assuming a zero inventory level.

^cAssume 2,000 bushels per boxcar.

Number of Boxcars per Shunt that Can be Loaded

The number of boxcars that an elevator operator can load in one group is limited by the length of the rail siding and the location of the elevator on the siding. Thus, while a siding may be able to accommodate twenty boxcars, perhaps only five or six cars can be loaded ready for collection by a train at one call. The number of car-lengths between the elevator spout and the neighbouring elevator company's spout or the ends of the siding is crucial.

Data for each delivery point, each company and each elevator are given in Table 32. Generally the number of boxcars per delivery point increases with the size of the community, but considerable variation exists. The range is from 1 at Bryant and Cullen to 30 at Radville.

Again using Hitchcock and Ralph as examples, Hitchcock required 13 boxcars to move a one bushel quota (Table 31) but is able to load only 7 boxcars in one shunt. Ralph needed 7 boxcars for one quota and can load as many as 8 boxcars per shunt.

TABLE 32. MAXIMUM NUMBER OF BOXCARS PER SHUNT THAT CAN BE LOADED BY DELIVERY POINT AND COUNTRY ELEVATOR, 1969-70

Delivery Point	Number of Boxcars per Point	Elevator Companies	Number of Boxcars per Elevator
<i>Too Small to Classify</i>			
Clearfield	8	C.N. Saskatchewan Wheat Pool	8
Innes	7	C.N. Saskatchewan Wheat Pool	7
Ritchie	12	C.N. Saskatchewan Wheat Pool	12
Roncott	11	C.N. Saskatchewan Wheat Pool	11
Bryant	1	C.N. Saskatchewan Wheat Pool	1
Union Jack	7	C.N. Saskatchewan Wheat Pool	7
Hoffer	5	C.P. Saskatchewan Wheat Pool	5
Viewfield	10	C.N. Saskatchewan Wheat Pool	10
Cullen	1	C.N. Saskatchewan Wheat Pool	1
Hume	10	C.P. Saskatchewan Wheat Pool	10
Hitchcock	7	C.P. Saskatchewan Wheat Pool	7
<i>Hamlets</i>			
Grassdale	9	C.N. Saskatchewan Wheat Pool (A)	5
		C.N. Saskatchewan Wheat Pool (B)	4
Talmage	8	C.N. Saskatchewan Wheat Pool (A)	4
		C.N. Saskatchewan Wheat Pool (B)	4
Huntoon	7	C.N. Saskatchewan Wheat Pool	7
Ralph	8	C.P. Saskatchewan Wheat Pool (A)	4
		C.P. Saskatchewan Wheat Pool (B)	4
East Poplar	19	C.P. Pioneer Grain Co. Ltd. (1)	6
		C.P. Pioneer Grain Co. Ltd. (2)	6
		C.P. Saskatchewan Wheat Pool	7
Hart	21	C.P. Pioneer Grain Co. Ltd. (1)	9
		C.P. Pioneer Grain Co. Ltd. (2)	4
		C.P. Saskatchewan Wheat Pool	8
Ratcliffe	12	C.P. Federal Grain Ltd. (1)	6
		C.P. Federal Grain Ltd. (2)	6
Glasnevin	28	C.P. Federal Grain Ltd.	10
		C.P. Saskatchewan Wheat Pool	18
Harptree	13	C.N. United Grain Growers (1)	4
		C.N. United Grain Growers (2)	5
		C.N. United Grain Growers (3)	4
Horizon	22	C.P. Federal Grain Ltd.	9
		C.P. Saskatchewan Wheat Pool (A)	8
		C.P. Saskatchewan Wheat Pool (B)	5
Outram	14	C.P. Saskatchewan Wheat Pool	14
Woodley	7	C.N. Saskatchewan Wheat Pool (A)	4
		C.N. Saskatchewan Wheat Pool (B)	3
		C.P. Pioneer Grain Co. Ltd. (1)	8
Constance	17	C.P. Pioneer Grain Co. Ltd. (2)	4
		C.P. Saskatchewan Wheat Pool	5

(continued)

TABLE 32. MAXIMUM NUMBER OF BOXCARS PER SHUNT THAT CAN BE LOADED BY DELIVERY POINT AND COUNTRY ELEVATOR, 1969-70 (continued)

Delivery Point	Number of Boxcars per Point	Elevator Companies	Number of Boxcars per Elevator
Hardy	8	C.N. National Grain Co. Ltd.	4
		C.N. Saskatchewan Wheat Pool	4
Amulet	8	C.P. Saskatchewan Wheat Pool (A)	3
		C.P. Saskatchewan Wheat Pool (B)	5
Heward	18	C.P. Federal Grain Ltd.	4
		C.P. Saskatchewan Wheat Pool (A)	10
		C.P. Saskatchewan Wheat Pool (B)	4
<i>Villages</i>			
Froude	10	C.P. Saskatchewan Wheat Pool (A)	5
		C.P. Saskatchewan Wheat Pool (B)	5
Beaubier	6	C.P. Saskatchewan Wheat Pool	6
Khedive	12	C.P. Federal Grain Ltd.	5
		C.P. Saskatchewan Wheat Pool	7
Verwood	16	C.P. Pioneer Grain Co. Ltd. (1)	7
		C.P. Pioneer Grain Co. Ltd. (2)	2
		C.P. Saskatchewan Wheat Pool	7
Scout Lake	13	C.P. Saskatchewan Wheat Pool (A)	4
		C.P. Saskatchewan Wheat Pool (B)	5
		C.P. Saskatchewan Wheat Pool (C)	4
Trossachs	6	C.N. Saskatchewan Wheat Pool	6
Gladmar	13	C.P. Parrish & Heimbecker Ltd.	7
		C.P. Saskatchewan Wheat Pool	6
Benson	10	C.N. Federal Grain Ltd.	5
		C.N. Saskatchewan Wheat Pool	5
Griffin	21	C.N. Saskatchewan Wheat Pool (A)	6
		C.P. Saskatchewan Wheat Pool (B)	6
		C.P. United Grain Growers Ltd.	9
Forget	14	C.P. Saskatchewan Wheat Pool	10
		C.P. United Grain Growers Ltd.	4
Halbrite	11	C.P. Saskatchewan Wheat Pool (A)	8
		C.P. Saskatchewan Wheat Pool (B)	3
Bromhead	15	C.P. Saskatchewan Wheat Pool (A)	6
		C.P. Saskatchewan Wheat Pool (B)	2
		C.P. United Grain Growers Ltd. (1)	5
		C.P. United Grain Growers Ltd. (2)	2
Goodwater	13	C.N. Saskatchewan Wheat Pool (A)	9
		C.N. Saskatchewan Wheat Pool (B)	3
		C.N. Saskatchewan Wheat Pool (C)	1
Fife Lake	19	C.P. Pioneer Grain Co. Ltd.	10
		C.P. Saskatchewan Wheat Pool	9
Oungre	12	C.P. Saskatchewan Wheat Pool (A)	5
		C.P. Saskatchewan Wheat Pool (B)	7

(continued)

TABLE 32. MAXIMUM NUMBER OF BOXCARS PER SHUNT THAT CAN BE LOADED BY DELIVERY POINT AND COUNTRY ELEVATOR, 1969-70 (continued)

Delivery Point	Number of Boxcars per Point	Elevator Companies	Number of Boxcars per Elevator
Colgate	14	C.N. Federal Grain Ltd.	6
		C.N. Saskatchewan Wheat Pool	8
Tribune	18	C.P. Saskatchewan Wheat Pool	7
		C.P. United Grain Growers Ltd.	11
Viceroy	20	C.P. Inter Ocean Grain Co. (1)	10
		C.P. Inter Ocean Grain Co. (2)	5
		C.P. Saskatchewan Wheat Pool	5
Macoun	11	C.P. Federal Grain Ltd.	6
		C.P. Saskatchewan Wheat Pool	5
Big Beaver	22	C.P. Federal Grain Ltd. (1)	4
		C.P. Federal Grain Ltd. (2)	10
		C.P. N.M. Paterson & Sons Ltd.	4
		C.P. Saskatchewan Wheat Pool	4
Lake Alma	20	C.P. Federal Grain Ltd. (1)	6
		C.P. Federal Grain Ltd. (2)	4
		C.P. Saskatchewan Wheat Pool	10
Minton	20	C.P. Federal Grain Ltd.	10
		C.P. Saskatchewan Wheat Pool	10
Creelman	17	C.P. Federal Grain Ltd.	5
		C.P. Saskatchewan Wheat Pool (A)	6
		C.P. Saskatchewan Wheat Pool (B)	6
<i>Towns</i>			
Pangman	16	C.P. Federal Grain Ltd. (1)	8
		C.P. Federal Grain Ltd. (2)	4
		C.P. Saskatchewan Wheat Pool	4
Ceylon	27	C.N. Federal Grain Ltd.	6
		C.N. Parrish & Heimbecker Ltd.	5
		C.N. Saskatchewan Wheat Pool (A)	5
		C.N. Saskatchewan Wheat Pool (B)	6
		C.N. United Grain Growers Ltd.	5
Torquay	17	C.P. Federal Grain Ltd.	5
		C.P. Saskatchewan Wheat Pool	8
		C.P. United Grain Growers Ltd.	4
Willow Bunch	16	C.N. Federal Grain Ltd.	4
		C.N. Saskatchewan Wheat Pool	4
		C.N. United Grain Growers Ltd. (1)	4
		C.N. United Grain Growers Ltd. (2)	4
Coronach	14	C.P. Pioneer Grain Co. Ltd. (1)	4
		C.P. Pioneer Grain Co. Ltd. (2)	5
		C.P. Saskatchewan Wheat Pool	5
Midale	15	C.P. Federal Grain Ltd.	6
		C.P. Saskatchewan Wheat Pool (A)	5
		C.P. Saskatchewan Wheat Pool (B)	4

(continued)

TABLE 32. MAXIMUM NUMBER OF BOXCARS PER SHUNT THAT CAN BE LOADED BY DELIVERY POINT AND COUNTRY ELEVATOR, 1969-70 (concluded)

Delivery Point	Number of Boxcars per Point	Elevator Companies	Number of Boxcars per Elevator
Ogema	17	C.P. Federal Grain Ltd. C.P. Saskatchewan Wheat Pool	5 12
<i>Greater Towns</i>			
Lampman	10	C.N. Saskatchewan Wheat Pool C.N. United Grain Growers Ltd.	4 6
Bengough	19	C.N. Federal Grain Ltd. C.N. Federal Grain Ltd. C.N. Parrish & Heimbecker Ltd. C.N. Saskatchewan Wheat Pool	4 4 3 8
Stoughton	20	C.P. Federal Grain Ltd. C.P. Pioneer Grain Co. Ltd. C.P. Saskatchewan Wheat Pool C.P. United Grain Growers Ltd.	6 4 5 5
Radville	30	C.N. National Grain Co. Ltd. C.N. Saskatchewan Wheat Pool C.N. United Grain Growers Ltd. (1) C.N. United Grain Growers Ltd. (2)	8 8 9 5
<i>Cities</i>			
Estevan	24	C.P. Federal Grain Ltd. (1) C.P. Federal Grain Ltd. (2) C.P. Inter Ocean Grain Co. Ltd. C.P. Saskatchewan Wheat Pool (A) C.P. Saskatchewan Wheat Pool (B)	3 13 3 2 3
Weyburn	28	C.P. Federal Grain Ltd. (1) C.P. Federal Grain Ltd. (2) C.P. Inter Ocean Grain Co. Ltd. (A) C.P. Inter Ocean Grain Co. Ltd. (B) C.P. Saskatchewan Wheat Pool (A) C.N. Saskatchewan Wheat Pool (B) C.P. Saskatchewan Wheat Pool (C) C.P. United Grain Growers Ltd.	2 2 5 3 2 3 2 9

Source: Board of Grain Commissioners, Winnipeg.

Block Loading System for Grain

The beginning of the 1969-70 crop year was the start of a new system of issuing shipping orders and allocating boxcars, known as the Canadian Wheat Board Block Loading System. The "blocks" are comprised of the grain delivery points situated on specified groups of contiguous railway subdivisions, with those of one railway company being kept separate from the other.

Improved communication between the Board and the elevator operators allows the Board to know the quantities of each kind and grade of grain available for forwarding from each point, and thus from each block. The Board accordingly is able to issue shipping orders to the grain companies represented in each block, and the companies can then allocate boxcars to their elevators in the block to ship the correct kind and grade of grain the Wheat Board needs in forward positions.

Table 33 lists the delivery points in the study area, grouped in their respective loading blocks. Also shown are the names of the railway subdivisions and the number of cars that can be loaded at one time at each point.

TABLE 33. BLOCK LOADING SYSTEM FOR GRAIN IN THE STUDY AREA

Shipping Block & Delivery Points	Railway Subdivision	Number of Cars Per Point
<i>Weyburn Block No. 71 (C.P.)</i>		
Amulet	Assiniboia	8
Axford	Assiniboia	-
Beaubier	Bromhead	6
Blooming	Bromhead	-
Bromhead	Bromhead	15
Caxton	Kisbey	-
Estevan	Bromhead	24
Forget	Kisbey	14
Froude	Kisbey	10
Gladmar	Bromhead	13
Glasnevin	Assiniboia	28
Griffin	Kisbey	21
Halbrite	Portal	11
Hitchcock	Portal	7
Hoffer	Bromhead	5
Horizon	Assiniboia	22
Hume	Kisbey	10
Khediye	Assiniboia	12
Lake Alma	Bromhead	20
Macoun	Portal	11
Midale	Portal	15
Minton	Bromhead	20
Ogema	Assiniboia	17
Oungre	Bromhead	12
Outram	Bromhead	14
Pangman	Assiniboia	16
Ralph	Portal	8
Ratcliffe	Bromhead	12
Stoughton	Kisbey	20
Torquay	Bromhead	17
Tribune	Bromhead	18
Trossachs	Assiniboia	6
Verwood	Assiniboia	16
Viceroy	Assiniboia	20
Weyburn	Assiniboia	25
<i>Regina South Block No. 33 (C.N.)</i>		
Bengough	Bengough	19
Benson	Lewvan	10
Blewett	Blewett	-
Brooking	Bengough	-
Brough	Lewvan	-
Bryant	Blewett	1
Ceylon	Bengough	27

(continued)

TABLE 33. BLOCK LOADING SYSTEM FOR GRAIN IN THE STUDY AREA (concluded)

Shipping Block & Delivery Points	Railway Subdivision	Number of Cars Per Point
Clearfield	Weyburn	8
Colgate	Goodwater	14
Cullen	Blewett	1
Goodwater	Goodwater	13
Grassdale	Weyburn	9
Griffin	Lewvan	21
Gye	Bengough	-
Hardy	Bengough	8
Harptree	Bengough	13
Huntoon	Lewvan	7
Innes	Lewvan	7
Radville	Avonlea	30
Ritchie	Bengough	12
Roncott	Bengough	11
Talmage	Weyburn	8
Union Jack	Weyburn	7
Viewfield	Lewvan	10
Weyburn	Weyburn	3
Willow Bunch	Bengough	16
Woodley	Lewvan	7
<i>Assiniboia Block No. 77 (C.P.)</i>		
Big Beaver	Fife Lake	22
Buffalo Gap	Fife Lake	-
Constance	Fife Lake	17
Coronach	Fife Lake	14
East Poplar	Fife Lake	19
Fife Lake	Fife Lake	19
Hart	Fife Lake	21
Scout Lake	Fife Lake	13
<i>Pasqua Block No. 72 (C.P.)</i>		
Creelman	Tyvan	17
Heward	Tyvan	18
<i>Brandon West Block No. 9 (C.N.)</i>		
Lampman	Lampman	10
<i>Regina West Block No. 35 (C.N.)</i>		
Abbott	Avonlea	-

Source: Board of Grain Commissioners, Winnipeg.

Farm Trucks

Table 34 presents estimates of the number and size distribution of farm trucks registered in the Weyburn region in 1966-67. It was felt that truck sizes were better expressed in terms of gross vehicle weight (GVW) than in terms of ton capacities because the latter designations are too ambiguous. Ton capacities corresponding to the GVW groups shown would range from one half ton in the 0 - 5,999 pound group to 3 and 4 tons somewhere in the upper end of the scale.

The average number of trucks per census farm in 1966 in census divisions 1, 2 and 3 was applied to the total number of permit holders in the study area during 1966-67 (Table 24). The number of trucks per farm was 1.57 and the number of permit holders was 4,998 resulting in an estimated 7,847 farm trucks in the study area. Percentage estimates of distribution by size, obtained from the Canadian Transport Commission, were then applied to the total number of trucks to arrive at the number of trucks within each GVW group.

Nearly a quarter of the trucks were in the smallest size group (i.e. one half ton trucks) and about 22 per cent in the next largest group (i.e. "small" one ton trucks). The third largest number of trucks belonged to the 10,000 - 11,999 GVW group, corresponding roughly to larger one or one and a quarter ton sizes.

TABLE 34. ESTIMATED NUMBER OF FARM TRUCKS BY SIZE IN THE STUDY AREA, 1966-67

Size of Truck (Gross Vehicle Weight)	Estimated Number of Trucks	Per Cent
0 - 5,999	1,819	23.18
6,000 - 7,999	1,706	21.74
8,000 - 9,999	6	0.08
10,000 - 11,999	891	11.35
12,000 - 13,999	627	7.99
14,000 - 15,999	194	2.48
16,000 - 17,999	176	2.24
18,000 - 19,999	295	3.76
20,000 - 23,999	690	8.79
24,000 - 27,999	702	8.95
28,000 and over	741	9.44
Study Area Total	7,847	100.00

Source: Calculated from data obtained from the Agriculture Census of Canada, 1966 and the Canadian Transport Commission, Ottawa.

Farm to Elevator Hauling Distances and Size of Hinterlands: Prediversion

Tributary areas from which grain delivery points draw grain from producers were plotted for the crop years 1962-63 and 1969-70 as shown in Figures 5 and 6. Each quarter section, as was entered in individual Canadian Wheat Board permit books, was plotted producing a graphic portrayal of the relative sizes and shapes of hinterlands. Naturally, unimproved farm land is included by this method of plotting. Excluded are crown land, waste land, bodies of water and farm land tributary to delivery points outside the study area.

Table 35 is a comparison of hinterlands between the two crop years. The data presented can be interpreted in two ways, namely, as farm to elevator grain hauling distances or as a measure of geographic size of hinterlands. The data were derived from 1962-63 and 1969-70 hinterland maps (Figures 5 and 6) by measuring the grid distance between the delivery point and the midpoint of each section block. The delivery point was always taken as being located at one corner of a section resulting in a minimum distance of 1.0 miles and all subsequent distances as 1.0 plus 1, 2 or 3 miles, etc., to the outer extreme of the hinterland.

The average distance each quarter section is located from its delivery point was calculated as follows: the distance of each section, as derived above, was weighted or multiplied by the relevant¹ number of quarter sections within that section, the products of which were accumulated; and the sum then divided through by the total number of quarter sections in the hinterland. So one might say the resulting average is the average distance each section is from the delivery point weighted by the number of relevant quarter sections.

As a measure of geographic size this method is fairly accurate. As an estimate of farm to elevator hauling distances this method may be criticized for not taking into account actual locations of on-farm, grain storage facilities nor the availability of roads. These criticisms may not be too serious, however, since grain is first hauled from the farm field to the farm granary and then to the country elevator at a later date. In effect, therefore, the hauling activity originates from each quarter section. It is difficult to know the magnitude of the error introduced by ignoring roads. The seriousness of the error will be greater for a hinterland with fewer roads than for a hinterland with a well developed network of roads. To the extent that there is a bias introduced by ignoring roads, conceivably, the method used under-estimates hauling distances.

The average size of hinterland in the study area in 1969-70 was 6.98 miles, slightly higher than the 1962-63 average of 6.60 miles. The maximum distance dropped 4.0 miles from 30.0 to 26.0. In the earlier period Estevan recorded the maximum distance 30.0; in the later period the maximum of 26.0

¹A "relevant" quarter section is one which was recorded in someone's delivery permit book and which was contained in the hinterland of the delivery point in question.

miles was recorded by Minton, Ceylon, Bengough and Weyburn. The minimum high was only 5.0 miles at Axford in 1962-63 and 6.0 miles at Clearfield and Innes in 1969-70.

The largest hinterland in terms of average size in both crop years was Radville with an average distance of just over 10 miles. Viewfield with an average size of 2.80 had the smallest hinterland in 1962-63 and Union Jack with an average of 2.67 miles was smallest in 1969-70.

Most of the hinterlands of delivery points too small to classify and of points classified as hamlets and villages decreased between 1962-63 and 1969-70; whereas, virtually all towns, greater towns and cities experienced increases. Stoughton showed the largest increase in size, namely, 1.09 miles and Union Jack showed the largest decrease, namely, -0.77 miles.

TABLE 35. FARM TO ELEVATOR HAULING DISTANCES AND SIZE OF HINTERLANDS
BY DELIVERY POINT, 1962-63 AND 1969-70

Delivery Point	1962-63		1969-70		Change in Average
	High ^a	Average	High ^a	Average	1962-63 to 1969-70
- miles -					
Too Small to Classify					
Axford	5.0	2.92	Closed		-
Gye	8.0	3.99	Closed		-
Abbott	8.0	3.11	Closed		-
Brooking	10.0	3.57	Closed		-
Blewett	8.0	3.28	Closed		-
Blooming	11.0	4.30	Closed		-
Caxton	14.0	3.56	Closed		-
Buffalo Gap	14.0	4.26	Closed		-
Clearfield	6.0	2.97	6.0	2.96	-0.01
Innes	7.0	3.53	6.0	3.29	-0.24
Ritchie	8.0	3.93	7.0	3.90	-0.03
Roncott	9.0	4.17	10.0	4.24	+0.07
Bryant	10.0	3.80	10.0	4.01	+0.21
Union Jack	9.0	3.44	7.0	2.67	-0.77
Hoffer	9.0	3.41	11.0	4.40	-0.01
Viewfield	10.0	2.80	10.0	3.31	+0.51
Cullen	8.0	3.39	9.0	3.64	+0.25
Hume	9.0	4.11	14.0	4.10	-0.01
Hitchcock	10.0	4.00	12.0	3.77	-0.23
Hamlets					
Grassdale	11.0	4.04	8.0	3.83	-0.21
Talmage	10.0	4.55	10.0	4.55	-
Huntoon	10.0	3.89	8.0	3.82	-0.07
Ralph	10.0	3.64	7.0	3.13	-0.51
East Poplar	13.0	5.02	11.0	4.85	-0.17
Hart	14.0	5.19	13.0	4.70	-0.49
Ratcliffe	13.0	5.05	11.0	4.95	-0.10
Glasnevin	10.0	4.93	10.0	4.77	-0.16
Harptree	17.0	5.46	17.0	5.22	-0.24
Horizon	20.0	6.03	17.0	5.64	-0.39
Outram	19.0	7.32	19.0	7.68	+0.36
Woodley	9.0	4.08	7.0	3.49	-0.59
Constance	17.0	8.52	16.0	8.13	-0.39
Hardy	17.0	5.88	16.0	5.54	-0.34
Amulet	11.0	4.03	8.0	3.78	-0.25
Heward	13.0	4.08	11.0	4.33	+0.25
Villages					
Froude	17.0	4.68	11.0	4.23	-0.45
Beaubier	15.0	5.15	12.0	5.64	+0.49

See footnotes at end of table

(continued)

TABLE 35. FARM TO ELEVATOR HAULING DISTANCES AND SIZE OF HINTERLANDS
BY DELIVERY POINT, 1962-63 AND 1969-70 (concluded)

Delivery Point	1962-63		1969-70		Change in Average
	High ^a	Average	High ^a	Average	1962-63 to 1969-70
- miles -					
Khedive	15.0	4.87	16.0	5.65	+0.78
Verwood	18.0	5.99	18.0	6.32	+0.33
Scout Lake	26.0	6.15	14.0	5.69	-0.36
Trossachs	15.0	5.32	13.0	5.53	+0.21
Gladmar	22.0	7.03	23.0	6.83	-0.20
Benson	11.0	4.69	16.0	5.26	+0.57
Griffin	12.0	6.11	12.0	6.10	-0.01
Forget	13.0	5.84	13.0	5.56	-0.28
Halbrite	11.0	5.02	10.0	4.83	-0.19
Bromhead	15.0	7.01	14.0	6.76	-0.25
Goodwater	10.0	5.25	14.0	5.25	-
Fife Lake	17.0	6.49	21.0	6.58	+0.09
Oungre	12.0	5.60	12.0	5.62	+0.02
Colgate	24.0	6.23	15.0	5.74	-0.49
Tribune	18.0	7.04	17.0	7.32	+0.28
Viceroy	20.0	6.21	16.0	6.18	-0.03
Macoun	16.0	5.89	14.0	5.95	-0.06
Big Beaver	22.0	7.57	22.0	7.29	-0.28
Lake Alma	17.0	7.63	17.0	7.37	-0.26
Minton	19.0	9.38	26.0	9.44	+0.06
Creelman	18.0	6.60	20.0	6.98	+0.38
Towns					
Pangman	16.0	5.72	18.0	6.28	+0.50
Ceylon	20.0	7.88	26.0	8.08	+0.20
Torquay	22.0	7.95	20.0	8.07	+0.12
Willow Bunch	13.0	6.11	14.0	6.58	+0.47
Coronach	15.0	6.47	18.0	7.17	+0.70
Midale	15.0	6.82	17.0	7.31	+0.49
Ogema	12.0	5.39	15.0	5.81	+0.42
Greater Towns					
Lampman	19.0	6.91	21.0	7.63	+0.72
Bengough	25.0	9.10	26.0	9.32	+0.22
Stoughton	17.0	6.45	20.0	7.54	+1.09
Radville	24.0	10.44	25.0	10.38	-0.06
Cities					
Estevan	30.0	9.37	25.0	10.01	+0.64
Weyburn	24.0	9.09	26.0	9.88	+0.79
Study Area Total	30.0	6.60	26.0	6.98	+0.38

^aThe minimum distance in all cases was assumed to be 1.0 miles; thus, the range in distances for each hinterland is the high minus 1.0 miles.

PART IV

RATIONALIZATION OF GRAIN DELIVERY POINTS

The preceding parts have dealt with community attributes, agricultural characteristics, and grain marketing and handling characteristics in the study area. This last part attempts to show what changes might be expected if some of the delivery points closed. "Rationalizing" delivery points in this manner is a hypothetical exercise and as such cannot be construed as a set of recommendations nor as a set of definitive adjustments that will in actual fact occur. Justification for the exercise may be found in the fact that, firstly, the probable directions of change are outlined and, secondly, estimates are made of the magnitudes of supposed changes.

For purposes of this study the delivery points on the following branch lines were assumed to be closed: (see Figures 6 and 7) Willow Bunch to Radville; Radville to Weyburn; Radville to Goodwater; Weyburn to Stoughton; Blewett to Lampman; and the short spur line to Tribune. Seventeen points were thus affected. Nine delivery points (including Brough) were actually closed already in 1969-70, leaving 46 points open. Of the latter, 37 points were affected by additional grain receipts after diversion.

Figure 7 was derived from 1969-70 hinterlands by a process of diverting each quarter section from those points assumed closed to probable alternate delivery points assumed to be remaining open. While an element of subjective judgement was involved the following criteria served as guides for selecting the most probable alternate delivery point for each quarter section: (1) shortest hauling distance; (2) operator's choice of alternate point as indicated on applications of 1970-71 permit books; (3) road conditions; and (4) size of community and number of services present at each alternate delivery point. These criteria are listed more or less in descending order of importance; although, in some instances the second and third criteria took precedence over the first. The fourth criterion was given only very minor importance.

Probable Diversions to Alternate Delivery Points from Delivery Points Assumed Closed

Tables 36 and 37 show the probable diversions that would occur in terms of acres, bushels and hauling distances after specified points were assumed closed. To begin with, in Table 36 percentage distribution figures were determined on the basis of number of quarter sections diverted to each alternate delivery point. For example, all of Clearfield was diverted to Radville, therefore, Radville obtained 100 per cent of Clearfield's farm acreage (Table 36). A further example, of the total number of quarters in Bryant hinterland, 60 per cent was diverted to Benson and 40 per cent to Macoun. Total farm acreage at Bryant in 1969-70 was 14,473 (Table 17) thus 8,684

acres went to Benson and 5,789 acres to Macoun. In total for the study area 734,047 acres were diverted representing 19.9 per cent of the nearly 3.7 million-acre total.

The quarter section percentage distribution was also the basis on which bushel diversion estimates were made. Again using Bryant to illustrate, in 1969-70 it had crop receipts of 80,532 bushels, 60 per cent of which was assumed to go to Benson and 40 per cent to Macoun. Since annual receipts fluctuate considerably and since 1969-70 may not have been a representative year, bushel diversions based on the ten-year average, 1960-61 to 1969-70 were similarly calculated. In 1969-70 about 3.8 million bushels in total were diverted to alternate delivery points compared to a ten-year average of 4.2 million bushels.

The average additional haul shown by the last column in Table 36 was derived as follows: the average distance each quarter section in the hinterland being diverted was situated from its alternate delivery point, was calculated employing the same method used for Table 35; from this value, the prediversion average hauling distance of the point being closed was subtracted, resulting in the postdiversion additional hauling distance. This means that whereas producers previously travelled an average of 2.96 miles to Clearfield (Table 35), after closing Clearfield they must travel on the average an additional 9.12 miles to Radville or 12.08 miles in total.

Additional hauls range from 1.80 miles for farmers at Tribune to 11.71 miles for farmers at Colgate.

Acreage and bushel diversions shown in Table 37 were derived from Table 36. Table 37 simply lists the 37 affected points remaining open and the amounts of acreage and grain receipts each receives from those points closing. Unlike Table 36, the percentage distribution values in Table 37 were computed from the acreage diversion data, not vice versa.

Nine open delivery points unaffected by diversions were Viewfield, Hitchcock, East Poplar, Outram, Gladmar, Forget, Torquay, Midale and Stoughton.

Average additional haul represents the increased average hauling distance of all producers after diversion as a result of the new, larger hinterlands illustrated in Figure 7. This information was simply reproduced from Table 38.

TABLE 36. PROBABLE DIVERSIONS TO ALTERNATE DELIVERY POINTS: ACREAGE, BUSHEL'S AND HAULING DISTANCE, BASIS 1969-70

Delivery Point Closed to Alternate Delivery Point	Per Cent Distribution	Acres Diverted		Bushels Diverted		Average Additional Haul
		1969-70	- acres -	1969-70	Ten-Year Average 1960-61 to 1969-70	
Too Small to Classify						
Clearfield to:						
Radville	100.0	10,463		47,696	60,938	9.12
Total	100.0	10,463		47,696	60,938	
Ritchie to:						
Ogema	89.3	12,531		53,775	52,111	7.71
Glasnevin	10.7	1,502		6,443	6,244	
Total	100.0	14,033		60,218	58,355	
Roncott to:						
Viceroy	80.8	20,312		102,175	108,540	6.93
Horizon	12.6	3,168		15,933	16,926	
Big Beaver	6.6	1,659		8,346	8,866	
Total	100.0	25,139		126,454	134,332	
Bryant to:						
Benson	60.0	8,684		48,319	66,677	4.81
Macoun	40.0	5,789		32,213	44,452	
Total	100.0	14,473		80,532	111,129	
Union Jack to:						
Weyburn	100.0	11,321		60,940	91,777	5.84
Total	100.0	11,321		60,940	91,777	
(continued)						

(continued)

TABLE 36. PROBABLE DIVERSIONS TO ALTERNATE DELIVERY POINTS: ACREAGE, BUSHEL'S AND HAULING DISTANCE,
BASIS 1969-70 (continued)

Delivery Point Closed to Alternate Delivery Point	Per Cent Distribution	Acres Diverted		Bushels Diverted		Average Additional Haul
		1969-70	- acres -	1969-70	Ten-Year Average 1960-61 to 1969-70	
Cullen to:						
Benson	37.9	6,185		29,518	41,674	4.25
Estevan	6.8	1,110		5,297	7,476	
Woodley	37.9	6,185		29,518	41,674	
Lampman	17.4	2,840		13,552	19,133	
Total	100.0	16,320		77,885	109,957	
Hume to:						
Griffin	52.5	9,287		45,071	44,002	3.97
Ralph	28.3	5,006		24,296	23,719	
Weyburn	13.1	2,317		11,246	10,980	
Talmage	6.1	1,079		5,237	5,113	
Total	100.0	17,689		85,850	83,814	
Hamlets						
Grassdale to:						
Weyburn	89.4	18,604		84,144	128,603	9.90
Radville	6.2	1,290		5,836	8,919	
Trossachs	4.4	916		4,141	6,329	
Total	100.0	20,810		94,121	143,851	
Harptree to:						
Coronach	74.1	28,092		151,014	162,276	11.64
Big Beaver	12.2	4,625		24,863	26,718	
Viceroy	10.2	3,867		20,787	22,338	
Hart	3.5	1,327		7,133	7,664	
Total	100.0	37,911		203,797	218,996	

(continued)

TABLE 36. PROBABLE DIVERSIONS TO ALTERNATE DELIVERY POINTS: ACREAGE, BUSHELS AND HAULING DISTANCE,
BASIS 1969-70 (continued)

Delivery Point Closed to Alternate Delivery Point	Per Cent Distribution	Acres Diverted		Bushels Diverted		Average Additional Haul
		1969-70	- acres -	1969-70	Ten-Year Average 1960-61 to 1969-70	
- bushels -						
- miles -						
Hardy to:						
Minton	52.9	22,528		114,092	130,020	
Pangman	22.0	9,369		47,448	54,073	
Ogema	17.0	7,240		36,664	41,783	
Amulet	8.1	3,448		17,470	19,908	
Total	100.0	42,585		215,674	245,784	6.89
Villages						
Froude to:						
Griffin	33.6	6,069		41,263	54,833	
Huntoon	17.7	3,197		21,736	28,885	
Innes	13.4	2,420		16,456	21,868	
Heward	32.7	5,906		40,158	53,364	
Creelman	2.6	470		3,194	4,243	
Total	100.0	18,062		122,807	163,193	2.43
Goodwater to:						
Halbrite	49.4	19,717		96,331	118,370	
Bromhead	42.6	17,003		83,070	102,076	
Weyburn	7.2	2,874		14,040	17,252	
Oungre	0.8	320		1,560	1,917	
Total	100.0	39,914		195,001	239,615	7.76

(continued)

(continued)

TABLE 36. PROBABLE DIVERSIONS TO ALTERNATE DELIVERY POINTS: ACREAGE, BUSHEL AND HAULING DISTANCE, BASIS 1969-70 (continued)

Delivery Point Closed to Alternate Delivery Point	Per Cent Distribution	Acres Diverted		Bushels Diverted		Average Additional Haul	
		1969-70	- acres -	1969-70	Ten-Year Average 1960-61 to 1969-70		
Colgate to:							
Weyburn	45.9	24,860		128,478	163,344	11.71	
Radville	23.9	12,944		66,898	86,615		
Oungre	23.6	12,782		66,059	85,528		
Beaubier	6.6	3,575		18,474	23,919		
Total	100.0	54,161		279,909	359,406		
Tribune to:							
Oungre	44.2	43,136		250,513	218,930	1.80	
Beaubier	15.7	15,322		88,983	77,765		
Bromhead	14.1	13,760		79,915	69,840		
Ratcliffe	13.0	12,687		73,680	64,391		
Hoffer	7.9	7,710		44,775	39,130		
Lake Alma	4.5	4,392		25,505	22,289		
Radville	0.6	585		3,401	2,971		
Total	100.0	97,592		566,772	495,316		
Towns							
Ceylon to:							
Pangman	22.5	20,953		105,571	132,504	5.45	
Radville	19.4	18,066		91,025	114,248		
Minton	43.1	40,137		202,227	253,819		
Khedive	12.6	11,734		59,120	74,203		
Amulet	2.4	2,234		11,260	14,134		
Total	100.0	93,124		469,203	588,908		

(continued)

(continued)

TABLE 36. PROBABLE DIVERSIONS TO ALTERNATE DELIVERY POINTS: ACREAGE, BUSHELS AND HAULING DISTANCE, BASIS 1969-70 (concluded)

Delivery Point Closed to Alternate Delivery Point	Per Cent Distribution	Acres Diverted		Bushels Diverted		Average Additional Haul
		1969-70	1969-70	1969-70	Ten-Year Average 1960-61 to 1969-70	
- acres -						
- bushels -						
- miles -						
Willow Bunch to:						
Verwood	56.2	53,883	303,637	315,842		
Hart	19.4	18,600	104,814	109,027		
Fife Lake	12.7	12,177	68,615	71,374		
Scout Lake	8.2	7,862	44,303	46,084		
Coronach	2.6	2,493	14,047	14,612		
Constance	0.9	863	4,863	5,058		
Total	100.0	95,878	540,279	561,997		4.10
Greater Towns						
Bengough to:						
Glasnevin	39.5	49,207	242,677	210,380		
Big Beaver	20.8	25,912	127,790	110,782		
Ogema	13.0	16,192	79,869	69,239		
Minton	11.7	14,575	71,882	62,315		
Horizon	10.5	13,080	64,509	55,924		
Viceroy	4.5	5,606	27,646	23,967		
Total	100.0	124,572	614,373	532,607		4.47
Study Area Total		734,047	3,841,511	4,199,975		

TABLE 37. PROBABLE DIVERSIONS FROM DELIVERY POINTS ASSUMED CLOSED: ACREAGE, BUSHELLS AND HAULING DISTANCE, BASIS 1969-70

Alternate Delivery Point from Points Closed	Per Cent Distribution	Acres Diverted		Bushels Diverted		Average Additional Haul
		1969-70	- acres -	1969-70	Ten-Year Average 1960-61 to 1969-70	
Too Small to Classify						
Innes from:						
Froude	100.0	2,420		16,456	21,868	0.21
Total	100.0	2,420		16,456	21,868	
Hoffer from:						
Tribune	100.0	7,710		44,775	39,130	1.09
Total	100.0	7,710		44,775	39,130	
Hamlets						
Talmage from:						
Hume	100.0	1,079		5,237	5,113	0.06
Total	100.0	1,079		5,237	5,113	
Huntoon from:						
Froude	100.0	3,197		21,736	28,885	0.12
Total	100.0	3,197		21,736	28,885	
Ralph from:						
Hume	100.0	5,006		24,296	23,719	0.49
Total	100.0	5,006		24,296	23,719	
Hart from:						
Willow Bunch	93.3	18,600		104,814	109,027	
Harptree	6.7	1,327		7,133	7,664	2.66
Total	100.0	19,927		111,947	116,691	
Ratcliffe from:						
Tribune	100.0	12,687		73,680	64,391	1.55
Total	100.0	12,687		73,680	64,391	

(continued)

TABLE 37. PROBABLE DIVERSIONS FROM DELIVERY POINTS ASSUMED CLOSED: ACREAGE, BUSHELS AND HAULING DISTANCE, BASIS 1969-70 (continued)

Alternate Delivery Point from Points Closed	Per Cent Distribution	Acres Diverted		Bushels Diverted		Average Additional Haul
		1969-70		1969-70	Ten-Year Average 1960-61 to 1969-70	
		- acres -	- bushels -	- miles -		
Glasnevin from:						
Bengough	97.0	49,207		242,677	210,380	
Ritchie	3.0	1,502		6,443	6,244	
Total	100.0	50,709		249,120	216,624	4.28
Horizon from:						
Bengough	80.5	13,080		64,509	55,924	
Roncott	19.5	3,168		15,933	16,926	
Total	100.0	16,248		80,442	72,850	0.63
Woodley from:						
Cullen	100.0	6,185		29,518	41,674	
Total	100.0	6,185		29,518	41,674	0.60
Constance from:						
Willow Bunch	100.0	863		4,863	5,058	
Total	100.0	863		4,863	5,058	0.05
Amulet from:						
Hardy	60.7	3,448		17,470	19,908	
Ceylon	39.3	2,234		11,260	14,134	
Total	100.0	5,682		28,730	34,042	4.20
Heward from:						
Froude	100.0	5,906		40,158	53,364	
Total	100.0	5,906		40,158	53,364	0.35

(continued)

TABLE 37. PROBABLE DIVERSIONS FROM DELIVERY POINTS ASSUMED CLOSED: ACREAGE, BUSHEL AND HAULING DISTANCE, BASIS 1969-70 (continued)

Alternate Delivery Point from Points Closed	Per Cent Distribution	Acres Diverted		Bushels Diverted		Average Additional Haul
		1969-70	- acres -	1969-70	Ten-Year Average 1960-61 to 1969-70	
<i>Villages</i>						
Beaubier from:						
Tribune	81.1	15,322		88,983	77,765	
Colgate	18.9	3,575		18,474	23,919	
Total	100.0	18,897		107,457	101,684	1.97
Khedive from:						
Ceylon	100.0	11,734		59,120	74,203	
Total	100.0	11,734		59,120	74,203	0.72
Verwood from:						
Willow Bunch	100.0	53,883		303,637	315,842	
Total	100.0	53,883		303,637	315,842	1.92
Scout Lake from:						
Willow Bunch	100.0	7,862		44,303	46,084	
Total	100.0	7,862		44,303	46,084	0.81
Trossachs from:						
Grassdale	100.0	916		4,141	6,329	
Total	100.0	916		4,141	6,329	0.02
Benson from:						
Bryant	58.4	8,684		48,319	66,677	
Cullen	41.6	6,185		29,518	41,674	
Total	100.0	14,869		77,837	108,351	0.62
Griffin from:						
Hume	60.5	9,287		45,071	44,002	
Froude	39.5	6,069		41,263	54,833	
Total	100.0	15,356		86,334	98,835	0.18
(continued)						

(continued)

TABLE 37. PROBABLE DIVERSIONS FROM DELIVERY POINTS ASSUMED CLOSED: ACREAGE, BUSHEL AND HAULING DISTANCE, BASIS 1969-70 (continued)

Alternate Delivery Point from Points Closed	Per Cent Distribution	Acres Diverted		Bushels Diverted		Average Additional Haul
		1969-70	- acres -	1969-70	Ten-Year Average	
					1960-61 to 1969-70	
			- acres -		- bushels -	- miles -
Halbrite from:						
Goodwater	100.0	19,717		96,331	118,370	
Total	100.0	19,717		96,331	118,370	2.25
Bromhead from:						
Goodwater	55.3	17,003		83,070	102,076	
Tribune	44.7	13,760		79,915	69,840	
Total	100.0	30,763		162,985	171,916	1.29
Fife Lake from:						
Willow Bunch	100.0	12,177		68,615	71,374	
Total	100.0	12,177		68,615	71,374	0.47
Oungre from:						
Tribune	76.7	43,136		250,513	218,930	
Colgate	22.7	12,782		66,059	85,528	
Goodwater	0.6	320		1,560	1,917	
Total	100.0	56,238		318,132	306,375	3.13
Viceroy from:						
Roncott	68.2	20,312		102,175	108,540	
Harptree	13.0	3,867		20,787	22,338	
Bengough	18.8	5,606		27,646	23,967	
Total	100.0	29,785		150,608	154,845	1.63
Macoun from:						
Bryant	100.0	5,789		32,213	44,452	
Total	100.0	5,789		32,213	44,452	0.22

(continued)

TABLE 37. PROBABLE DIVERSIONS FROM DELIVERY POINTS ASSUMED CLOSED: ACREAGE, BUSHEL AND HAULING DISTANCE, BASIS 1969-70 (continued)

Alternate Delivery Point from Points Closed	Per Cent Distribution	Acres Diverted		Bushels Diverted		Average Additional Haul
		1969-70	- acres -	1969-70	Ten-Year Average	
					1960-61 to 1969-70	
					- bushels -	- miles -
Big Beaver from:						
Bengough	80.5	25,912		127,790	110,782	
Harpree	14.4	4,625		24,863	26,718	
Roncott	5.1	1,659		8,346	8,866	
Total	100.0	32,196		160,999	146,366	1.62
Lake Alma from:						
Tribune	100.0	4,392		25,505	22,289	
Total	100.0	4,392		25,505	22,289	0.07
Minton from:						
Hardy	29.2	22,528		114,092	130,020	
Ceylon	52.0	40,137		202,227	253,819	
Bengough	18.8	14,575		71,882	62,315	
Total	100.0	77,240		388,201	446,154	2.50
Creelman from:						
Froude	100.0	470		3,194	4,243	
Total	100.0	470		3,194	4,243	0.02
Towns						
Pangman from:						
Hardy	30.9	9,369		47,448	54,073	
Ceylon	69.1	20,953		105,571	132,504	
Total	100.0	30,322		153,019	186,577	2.11
Coronach from:						
Harpree	91.8	28,092		151,014	162,276	
Willow Bunch	8.2	2,493		14,047	14,612	
Total	100.0	30,585		165,061	176,888	2.80
(continued)						

(continued)

TABLE 37. PROBABLE DIVERSIONS FROM DELIVERY POINTS ASSUMED CLOSED: ACREAGE, BUSHELS AND HAULING DISTANCE,
BASIS 1969-70 (concluded)

Alternate Delivery Point from Points Closed	Per Cent Distribution	Acres Diverted		Bushels Diverted		Average Additional Haul
		1969-70	- acres -	1969-70	Ten-Year Average 1960-61 to 1969-70	
Ogema from:						
Ritchie	34.8	12,531		53,775	52,111	
Hardy	20.1	7,240		36,664	41,783	
Bengough	45.1	16,192		79,869	69,239	
Total	100.0	35,963		170,308	163,133	2.67
Greater Towns						
Lampman from:						
Cullen	100.0	2,840		13,552	19,133	
Total	100.0	2,840		13,552	19,133	0.04
Radville from:						
Clearfield	24.1	10,463		47,696	60,938	
Grassdale	3.0	1,290		5,836	8,919	
Colgate	29.9	12,944		66,898	86,615	
Tribune	1.3	585		3,401	2,971	
Ceylon	41.7	18,066		91,025	114,248	
Total	100.0	43,348		214,856	273,691	0.68
Cities						
Estevan from:						
Cullen	100.0	1,110		5,297	7,476	
Total	100.0	1,110		5,297	7,476	0.01
Weyburn from:						
Union Jack	18.9	11,321		60,940	91,777	
Hume	3.9	2,317		11,246	10,980	
Grassdale	31.0	18,604		84,144	128,603	
Goodwater	4.8	2,874		14,040	17,252	
Colgate	41.4	24,860		128,478	163,344	
Total	100.0	59,976		298,848	411,956	1.01
Study Area Total		734,047		3,841,511	4,199,975	

Farm to Elevator Hauling Distances and Size of Hinterlands: Postdiversion

Comparisons of hinterland sizes and hauling distances before and after diversion are presented in Table 38. For the study area as a whole, the average hinterland size only increased 0.83 miles to about 7.81 miles. Prior to diversion the smallest hinterland was Union Jack (2.67) and the largest Radville (10.38). Of those delivery points open after diversion the smallest hinterland was Viewfield (3.31), which did not gain any acreage, and the largest Minton (11.94). Some hinterlands increased substantially while others experienced little or no change. Average distances at Glasnevin and Amulet, both hamlets, increased over 4 miles which was the largest change in the study area.

The maximum distance of all hinterlands remained unchanged at 26.0 miles. The minimum high also remained unchanged at 6.0 miles at Innes.

TABLE 38. FARM TO ELEVATOR HAULING DISTANCES AND SIZE OF HINTERLANDS BY DELIVERY POINT, BEFORE AND AFTER DIVERSION, BASIS 1969-70

Delivery Point	Before Diversion 1969-70		After Diversion 1969-70		Difference in Average Before and After Diversion
	High	Average	High	Average	
- miles -					
Too Small to Classify					
Clearfield ^a	6.0	2.96	-	-	-
Innes	6.0	3.29	6.0	3.50	0.21
Ritchie ^a	7.0	3.90	-	-	-
Roncotta ^a	10.0	4.24	-	-	-
Bryant ^a	10.0	4.01	-	-	-
Union Jack ^a	7.0	2.67	-	-	-
Hoffer	11.0	4.40	13.0	5.49	1.09
Viewfield ^b	10.0	3.31	10.0	3.31	-
Cullen ^a	9.0	3.64	-	-	-
Hume ^a	14.0	4.10	-	-	-
Hitchcock ^b	12.0	3.77	12.0	3.77	-
Hamlets					
Grassdale ^a	8.0	3.83	-	-	-
Talmage	10.0	4.55	10.0	4.61	0.06
Huntoon	8.0	3.82	8.0	3.94	0.12
Ralph	7.0	3.13	7.0	3.62	0.49
East Poplar ^b	11.0	4.85	11.0	4.85	-
Hart	13.0	4.70	16.0	7.36	2.66
Ratcliffe	11.0	4.95	16.0	6.50	1.55
Glasnevin	10.0	4.77	20.0	9.05	4.28
Harptree ^a	17.0	5.22	-	-	-
Horizon	17.0	5.64	17.0	6.27	0.63
Outram ^b	19.0	7.68	19.0	7.68	-
Woodley	7.0	3.49	9.0	4.09	0.60

See footnotes at end of table

(continued)

TABLE 38. FARM TO ELEVATOR HAULING DISTANCES AND SIZE OF HINTERLANDS BY DELIVERY POINT, BEFORE AND AFTER DIVERSION, BASIS 1969-70 (continued)

Delivery Point	Before Diversion 1969-70		After Diversion 1969-70		Difference in Average Before and After Diversion
	High	Average	High	Average	
	- miles -				
Constance	16.0	8.13	16.0	8.18	0.05
Hardy ^a	16.0	5.54	-	-	-
Amulet	8.0	3.78	20.0	7.98	4.20
Heward	11.0	4.33	11.0	4.68	0.35
<i>Villages</i>					
Froude ^a	11.0	4.23	-	-	-
Beaubier	12.0	5.64	16.0	7.61	1.97
Khedive	16.0	5.65	16.0	6.37	0.72
Verwood	18.0	6.32	18.0	8.24	1.92
Scout Lake	14.0	5.69	15.0	6.50	0.81
Trossachs	13.0	5.53	13.0	5.55	0.02
Gladmar ^b	23.0	6.83	23.0	6.83	-
Benson	16.0	5.26	16.0	5.88	0.62
Griffin	12.0	6.10	12.0	6.28	0.18
Forget ^b	13.0	5.56	13.0	5.56	-
Halbrite	10.0	4.83	18.0	7.08	2.25
Bromhead	14.0	6.76	17.0	8.05	1.29
Goodwater ^a	14.0	5.25	-	-	-
Fife Lake	21.0	6.58	21.0	7.05	0.47
Oungre	12.0	5.62	21.0	8.75	3.13
Colgate ^a	15.0	5.74	-	-	-
Tribune ^a	17.0	7.32	-	-	-
Viceroy	16.0	6.18	18.0	7.81	1.63
Macoun	14.0	5.95	14.0	6.17	0.22
Big Beaver	22.0	7.29	22.0	8.91	1.62
Lake Alma	17.0	7.37	17.0	7.44	0.07

See footnotes at end of table

(continued)

TABLE 38. FARM TO ELEVATOR HAULING DISTANCES AND SIZE OF HINTERLANDS BY DELIVERY POINT, BEFORE AND AFTER DIVERSION, BASIS 1969-70 (concluded)

Delivery Point	Before Diversion 1969-70		After Diversion 1969-70		Difference in Average Before and After Diversion
	High	Average	High	Average	
	- miles -				
Minton	26.0	9.44	26.0	11.94	2.50
Creelman	20.0	6.98	20.0	7.00	0.02
<i>Towns</i>					
Pangman	18.0	6.28	19.0	8.39	2.11
Ceylon ^a	26.0	8.08	-	-	-
Torquay ^b	20.0	8.07	20.0	8.07	-
Willow Bunch ^a	14.0	6.58	-	-	-
Coronach	18.0	7.17	25.0	9.97	2.80
Midale ^b	17.0	7.31	17.0	7.31	-
Ogema	15.0	5.81	22.0	8.49	2.67
<i>Greater Towns</i>					
Lampman	21.0	7.63	21.0	7.67	0.04
Bengough ^a	26.0	9.32	-	-	-
Stoughton ^b	20.0	7.54	20.0	7.54	-
Radville	25.0	10.38	25.0	11.06	0.68
<i>Cities</i>					
Estevan	25.0	10.01	25.0	10.02	0.01
Weyburn	26.0	9.88	26.0	10.89	1.01
Study Area Total	26.0	6.98	26.0	7.81	0.83

^aDelivery points assumed closed after diversion.

^bDelivery points open and unaffected by diversions.

Through-Put Ratios

The through-put ratio (Table 39) is the total number of bushels received by a delivery point in one year divided by its total bushel storage capacity. This ratio represents one measure of efficiency of the grain elevator. The ten-year average is based on average annual receipts over the past ten years divided by the 1969-70 rated storage capacity. Before diversion 18 delivery points had ratios under 2.0 and only five had ratios of 3.5 and over. The minimum was 1.3 at Constance and the maximum was 4.4 at Cullen. Handling to capacity ratios were generally higher in 1962-63 (maximum of 7.6 at Outram) and generally lower in 1969-70 than the ten-year averages. This is largely due to delivery fluctuations between years.

Through-put ratios for many points would increase significantly after diversion. Comparing 1969-70 before and after diversion ratios, four delivery points would more than double their through-put ratios. They are Glasnevin, Verwood, Oungre and Minton. Comparing before and after diversion ten-year average ratios, the latter three would more than double their ratios while Glasnevin fell slightly short of doubling its ratio from 2.4 to 4.5. The through-put ratio at Beaubier would increase from 3.0 to 5.8. It appears Oungre would experience the most dramatic increase of all in terms of both its postdiversion 1969-70 and ten-year average ratio.

It has been suggested that for an elevator to pay for itself, it must maintain a ratio of between 3.0 and 4.0.¹ One might speculate that an economically optimum through-put ratio is in the neighborhood of 10.0.² On that basis, given the present plant and labor resources, then even after diversion none of the country elevators in the study area would experience any difficulty in handling the additional through-put. No doubt total variable costs would increase; but total costs per bushel handled would decrease.

All of the postdiversion ratios are less than 10.0 including the ratio at Oungre. As already noted, before diversion there were only five delivery points that had a ten-year average through-put ratio of 3.5 or greater. After closing 17 of the 63 points the number of delivery points in this category only increased to 11. If the optimum through-put ratio is, in fact, substantially higher than 3.5, say 10.0, then there is ample evidence that the country elevator system in the study region is overbuilt for the quantity of grain handled.

¹D. Zasada, "The Probable Effects of the Application for Railway Branch Line Abandonment on the Grain Elevator Industry", Canadian Farm Economics, April, 1968, page 21.

²Speculative reasoning might suggest the following example. Suppose a one-elevator delivery point has a storage capacity of 25,000 bushels. A through-put ratio of 10.0 would require the handling of 250,000 bushels per year. At 2,000 bushels per boxcar the elevator agent would only have to load 125 cars per year or about 2.5 boxcars per week for 50 weeks.

TABLE 39. THROUGH-PUT RATIOS BY DELIVERY POINT, 1962-63 AND BEFORE AND AFTER DIVERSION, BASIS 1969-70 AND PREVIOUS TEN-YEAR AVERAGE

Delivery Point	Before Diversion			After Diversion	
	1962-63	1969-70	Ten-Year Average 1960-61 to 1969-70	1969-70	Ten-Year Average 1960-61 to 1969-70
<i>Too Small to Classify</i>					
Axford	3.2	Closed	-	-	-
Gye	1.5	Closed	-	-	-
Abbott	5.3	Closed	-	-	-
Brooking	2.1	Closed	-	-	-
Blewett	3.1	Closed	-	-	-
Blooming	1.3	Closed	-	-	-
Caxton	5.5	Closed	-	-	-
Buffalo Gap	2.1	Closed	-	-	-
Clearfield ^a	2.8	1.8	2.3	-	-
Innes	5.8	3.9	4.1	4.6	5.1
Ritchie ^a	3.7	2.2	2.1	-	-
Roncott ^a	2.2	2.4	2.6	-	-
Bryant ^a	7.0	2.9	4.0	-	-
Union Jack ^a	4.4	2.0	3.1	-	-
Hoffer	2.5	2.6	2.3	3.5	3.1
Viewfield	2.7	2.1	2.1	n/c	n/c
Cullen ^a	6.9	3.1	4.4	-	-
Hume ^a	4.3	2.9	2.8	-	-
Hitchcock	5.7	3.6	4.1	n/c	n/c
<i>Hamlets</i>					
Grassdale ^a	3.5	1.9	2.9	-	-
Talmage	3.2	1.9	2.7	1.9	2.8
Huntoon	5.2	3.0	3.3	3.4	3.9
Ralph	4.1	2.2	2.5	2.7	3.0
East Poplar	3.3	1.5	1.6	n/c	n/c
Hart	2.0	1.3	1.5	2.2	2.4
Ratcliffe	4.9	2.2	2.9	3.4	3.9
Glasnevin	3.4	1.9	2.4	4.4	4.5
Harptree ^a	3.3	1.9	2.1	-	-
Horizon	2.0	1.4	1.4	1.7	1.8
Outram	7.6	3.1	2.8	n/c	n/c
Woodley	5.4	2.0	3.1	2.6	3.9
Constance	1.7	1.1	1.3	1.1	1.3
Hardy ^a	3.0	1.8	2.0	-	-
Amulet	2.8	1.4	1.6	1.7	2.0
Heward	2.2	2.0	1.7	2.2	2.1

See footnotes at end of table

(continued)

TABLE 39. THROUGH-PUT RATIOS BY DELIVERY POINT, 1962-63 AND BEFORE AND AFTER DIVERSION, BASIS 1969-70 AND PREVIOUS TEN-YEAR AVERAGE
(continued)

Delivery Point	Before Diversion			After Diversion	
	1962-63	1969-70	Ten-Year Average 1960-61 to 1969-70	1969-70	Ten-Year Average 1960-61 to 1969-70
<i>Villages</i>					
Froude ^a	3.9	2.4	3.2	-	-
Beaubier	6.5	3.7	3.0	6.6	5.8
Khediye	3.0	2.6	2.3	3.0	2.9
Verwood	1.3	1.5	1.5	3.1	3.1
Scout Lake	2.4	2.1	2.6	2.5	3.0
Trossachs	3.4	3.2	3.7	3.3	3.8
Gladmar	3.3	1.6	1.8	n/c	n/c
Benson	5.2	2.0	2.6	2.5	3.4
Griffin	3.5	2.6	2.8	3.1	3.3
Forget	5.0	2.3	2.6	n/c	n/c
Halbrite	3.9	2.5	2.7	3.6	4.0
Bromhead	4.0	2.8	2.8	3.8	3.9
Goodwater ^a	1.8	1.3	1.6	-	-
Fife Lake	2.3	1.5	1.5	1.7	1.7
Oungre	4.3	3.3	3.3	9.0	8.4
Colgate ^a	3.4	1.7	2.2	-	-
Tribune ^a	3.3	2.9	2.5	-	-
Viceroy	2.2	1.8	1.9	2.5	2.7
Macoun	3.9	2.8	2.7	3.0	2.9
Big Beaver	5.3	2.7	2.1	3.6	3.0
Lake Alma	4.6	2.6	2.7	2.8	2.9
Minton	4.2	2.2	2.2	4.7	5.1
Creelman	3.1	2.0	2.1	2.0	2.1
<i>Towns</i>					
Pangman	2.6	2.2	2.1	3.1	3.2
Ceylon ^a	2.6	1.4	1.8	-	-
Torquay	4.7	2.0	2.1	n/c	n/c
Willow Bunch ^a	1.4	1.5	1.6	-	-
Coronach	3.2	2.2	1.8	2.9	2.5
Midale	3.6	2.0	2.0	n/c	n/c
Ogema	4.1	2.0	2.0	3.0	2.9
<i>Greater Towns</i>					
Lampman	5.8	2.6	2.5	2.7	2.6
Bengough ^a	2.7	2.1	1.8	-	-
Stoughton	3.8	1.7	1.4	n/c	n/c
Radville	3.6	2.3	2.4	2.8	3.0

See footnotes at end of table

(continued)

TABLE 39. THROUGH-PUT RATIOS BY DELIVERY POINT, 1962-63 AND BEFORE AND AFTER DIVERSION, BASIS 1969-70 AND PREVIOUS TEN-YEAR AVERAGE (concluded)

Delivery Point	Before Diversion			After Diversion	
	1962-63	1969-70	Ten-Year Average 1960-61 to 1969-70	1969-70	Ten-Year Average 1960-61 to 1969-70
<i>Cities</i>					
Estevan	3.6	2.0	1.9	2.0	1.9
Weyburn	2.4	1.9	1.7	2.2	2.2
Study Area Total	3.2	2.0	2.1	2.5	2.6

n/c - No change in ratios for delivery points open and unaffected by diversions.

^aDelivery points assumed closed after diversion.

Number of Permit Holders Before and After Diversion

If the kind of rationalization postulated in this report were to take place there would also be adjustments in the number of permit holders associated with each delivery point affected. Based on the actual number of permits issued by delivery point 1969-70, estimates were made of the probable number of permits at each delivery point after diversion (Table 40). These estimates were derived using the percentage distribution values in Table 36 in the same manner that acreage and bushel diversions were made. It was also assumed that there would be no attrition of producers as a result of rationalization. In total 1,046 permit holders (i.e. farm operators) would find it necessary to alter their delivery point, which represents 21.8 per cent of the total 4,804 permit holders in the study area.

Minton gained the largest number of permit holders with an increase of 120 added onto an original 107. Other delivery points which more than doubled their numbers of permits were (increases shown in parentheses): Glasnevin (73), Verwood (75) and Oungre (85). Comparison with previous tables in Part IV reveals that the above four delivery points were also affected most by diversion in terms of acreage and bushel diversions, farm to elevator hauling distances and through-put ratios.

TABLE 40. NUMBER OF PERMIT HOLDERS BY DELIVERY POINT BEFORE AND AFTER DIVERSION, BASIS 1969-70

Delivery Point	Number of Permit Holders Before Diversion	Estimated Number of Permit Holders After Diversion
<i>Too Small to Classify</i>		
Clearfield ^a	8	-
Innes	21	25
Ritchie ^a	19	-
Roncott ^a	34	-
Bryant ^a	19	-
Union Jack ^a	16	-
Hoffer	25	37
Viewfield ^b	19	19
Cullen ^a	27	-
Hume ^a	25	-
Hitchcock ^b	40	40
<i>Hamlets</i>		
Grassdale ^a	26	-
Talmage	60	62
Huntoon	38	42
Ralph	20	27
East Poplar ^b	51	51
Hart	39	67
Ratcliffe	42	61
Glasnevin	53	126
Harptree ^a	46	-
Horizon	58	81
Outram ^b	78	78
Woodley	21	31
Constance	45	46
Hardy ^a	67	-
Amulet	33	43
Heward	43	51
<i>Villages</i>		
Froude ^a	25	-
Beaubier	36	64
Khediye	85	104
Verwood	73	148
Scout Lake	51	62
Trossachs	52	53
Gladmar ^b	76	76
Benson	65	86
Griffin	109	130
Forget ^b	57	57

See footnotes at end of table

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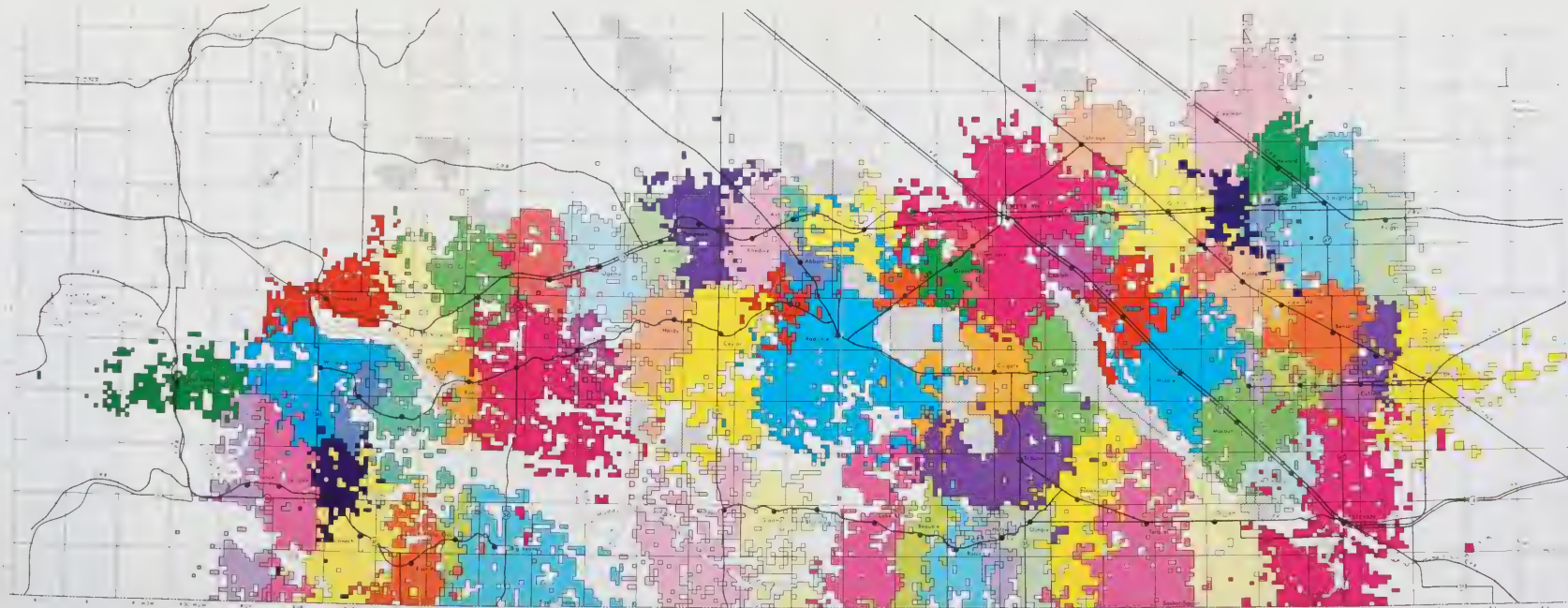
TABLE 40. NUMBER OF PERMIT HOLDERS BY DELIVERY POINT BEFORE AND AFTER DIVERSION, BASIS 1979-70 (concluded)

Delivery Point	Number of Permit Holders Before Diversion	Estimated Number of Permit Holders After Diversion
Halbrite	55	78
Bromhead	92	133
Goodwater ^a	47	-
Fife Lake	85	102
Oungre	37	122
Colgate ^a	75	-
Tribune ^a	149	-
Viceroy	90	131
Macoun	99	107
Big Beaver	117	162
Lake Alma	103	110
Minton	107	227
Creelman	103	104
<i>Towns</i>		
Pangman	78	126
Ceylon ^a	149	-
Torquay ^b	132	132
Willow Bunch ^a	134	-
Coronach	104	141
Midale ^b	137	137
Ogema	100	152
<i>Greater Towns</i>		
Lampman	128	133
Bengough ^a	180	-
Stoughton ^b	129	129
Radville	250	308
<i>Cities</i>		
Estevan	211	213
Weyburn	311	390
Study Area Total	4,804	4,804

^aDelivery points assumed closed after diversion.

^bDelivery points open and unaffected by diversion.

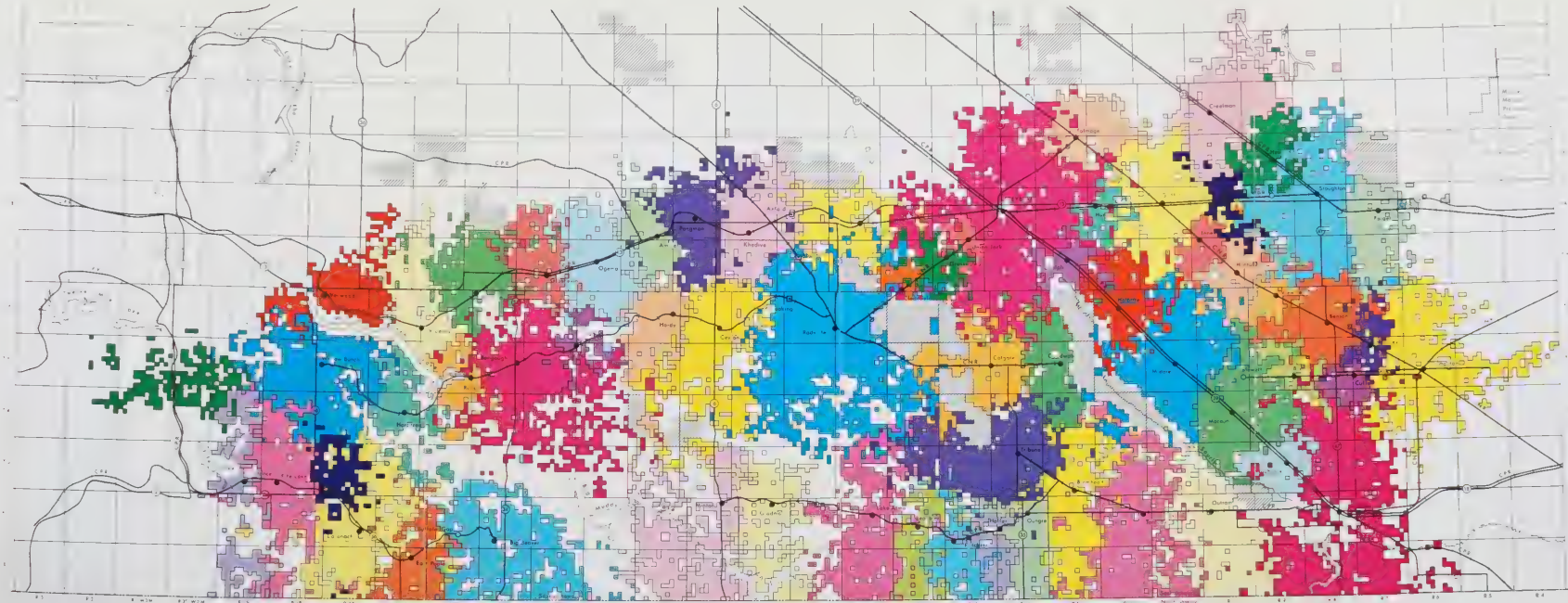
Grain Delivery Point Hinterlands,
Weyburn Region, Saskatchewan, 1962-63



Bengough	Weyburn	Estevan	
Willow Bunch	Radville	Midale	
Ceylon	Bromhead	Lampman	
Fife Lake	Lake Alma	Torquay	
Big Beaver	Ratcliffe	Stoughton	
Coronach	Trossachs	Griffin	
Minton	Khedive	Creelman	
Ogema	Blooming	Hitchcock	
Vicero	Gladmar	Outram	
Pangman	Tribune	Woodley	
East Poplar	Clearfield	Benson	
Horison	Goodwater	Macoun	
Constance	Holter	Blewett	
Hardy	Talmage	Huntoon	
Amulet	Ouangre	Forget	
Hart		Froude	
Verwood	Brooking	Halbrit	
Scout Lake	Gransdale	Heward	
Ritchie	Ralph	Cullen	
Glasnevin	Union Jack	Innes	
Hartree	Axford	Hume	
Gye	Abbott	Coxton	
Roacott	Colgate	Viewfield	
Buffalo Gap	Beaubier	Bryant	
Community Pastures			
Delivery Point			
Closed for Storage only			
Railroad			
Hard Surface, All Weather Road			
Scale in Miles			

Grain Delivery Point Hinterlands,

Weyburn Region, Saskatchewan, 1969-70



Benough	Weyburn	Estevan	
Willow Bunch	Radville	Midale	
Ceylon	Bromhead	Lampman	
Fife Lake	Lake Alma	Torquay	
Big Beaver	Ritchie	Stoughton	
Coronach	Trossachs	Giffin	
Minton	Khedive	Creelman	
Ogema		Hitchcock	
Viceroy	Gladmar	Outram	
Pangman	Tribune	Woodley	
East Poplar	Clearfield	Benson	
Horizon	Goodwater	Macoun	
Constance	Hoffer		
Hardy	Talmage	Huntoon	
Amulet	Ousagre	Forget	
Hart		Froude	
Verwood		Halbrite	
Scout Lake	Gransdale	Heward	
Ritchie	Ralph	Cullen	
Glasnevin	Union Jack	Innes	
Hartree		Hume	
Roncott	Colgate	Viewfield	
	Beaubier	Bryant	
Community Pastures			
Delivery Point			
Delivery Point Closed Between 62-69			
Closed for Storage only			
Railroad			
Hard Surface, All Weather Road			
Scale in Miles			

Probable Grain Delivery Point Hinterlands
Assuming Specified Delivery Points Closed, Basis 1969-70

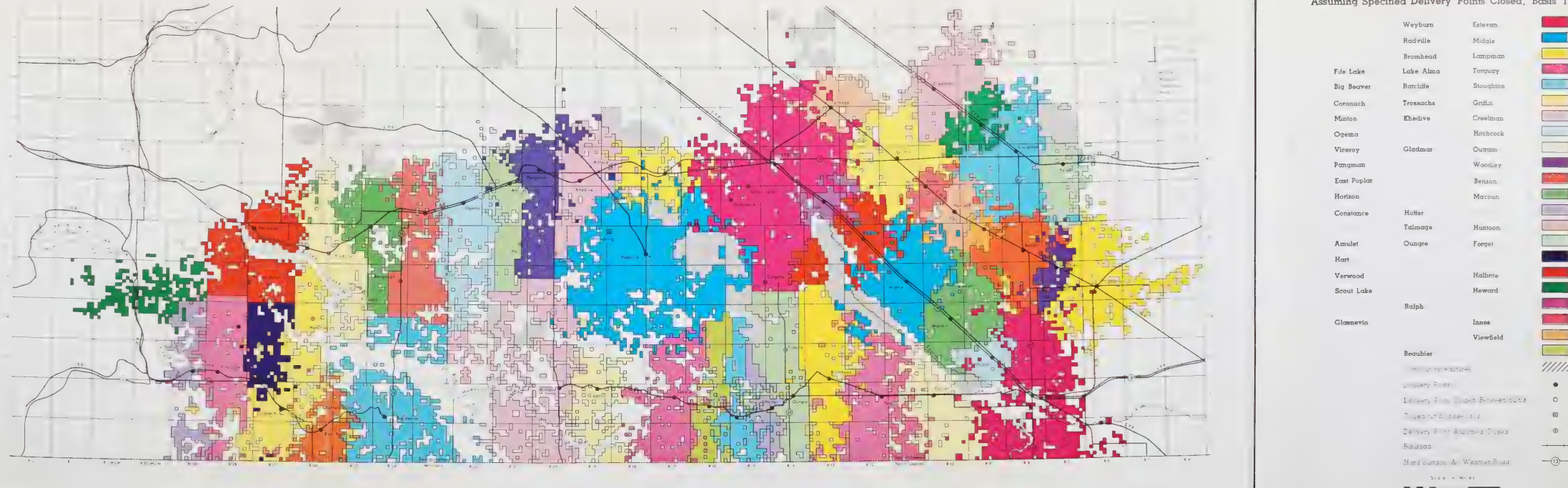


Fig. 5

THE WEYBURN REGION OF SASKATCHEWAN
Prairie Regional Studies in Economic Geography No. 5

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